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American
University
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WASHINGTON, D. C.



The American University Bulletin

The following publications concerning the University are available on request:

Announcement of the Undergraduate College

Announcement of the School of Business Administration

Announcement of the Washington College of Law

Announcement of the Graduate School

Announcement of Courses for the Fall Session

Announcement of Courses for the Spring Session

Announcement of Courses for the Summer Sessions

Address all inquiries about publications, applications for admission, or for information about the University and its offerings to:

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The American University

Massachusetts and Nebraska Avenues, N.W.

Washington 16, D.C.

Telephone WOODLEY 6-6803

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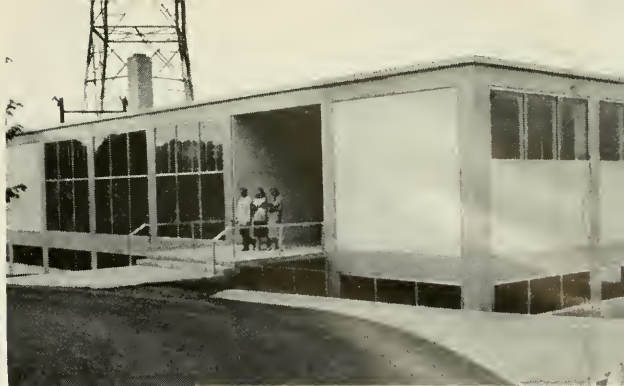


Administrative Officers at Downtown Center



Students Stroll
at Battelle
Memorial Hall

Radio-TV Building



Washington College of Law



Downtown Center



Mary Graydon Hall
Women's Dormitory



Students at Quadrangle in front of Hurst Hall

THE AMERICAN UNIVERSITY

The American University was chartered by the Congress of the United States on February 24, 1893.

The University is accredited by the Middle States Association of Colleges and Secondary Schools and the University Senate of The Methodist Church. It is a member of the Association of American Colleges, the Association of Urban Universities, the Association of University Evening Colleges, and the National Intercollegiate Athletic Association.

The University's Washington College of Law is a member of the Association of American Law Schools and is approved by the American Bar Association.

THE AMERICAN UNIVERSITY,
Washington, D.C.

General Catalog

1956-1959



UNDERGRADUATE COLLEGE

*SCHOOL OF BUSINESS
ADMINISTRATION*

*WASHINGTON COLLEGE
OF LAW*

GRADUATE SCHOOL

*SCHOOL OF SOCIAL
SCIENCES
AND PUBLIC AFFAIRS
(Evening Division)*

WASHINGTON,
DISTRICT OF COLUMBIA

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1956-61

WASHINGTON is a living educational laboratory where world events and students meet. All the elements of domestic and foreign policy converge in the nation's capital, the political, economic, and cultural focal point of the free world.

It is the aim of The American University to prepare its students for their roles as informed, active citizens in a democratic society.

The programs of the University are designed to take advantage of the unparalleled resources of the nation's capital and to provide at the same time broad curricula on undergraduate, graduate, and professional levels.

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University Calendar

1956-1959

The academic program of The American University is offered during three sessions a year—Fall, Spring, and Summer. Sequences of courses are planned so as to permit students to begin degree programs in any of these sessions.

Students are expected to familiarize themselves with calendar dates that affect their courses of study. The calendar lists specific times at which certain University requirements must be met and awareness of deadline dates will enable students to plan their schedules to meet the requirements that apply to them.

Since the calendar following is in summary form and is subject to change, all students should consult the detailed academic calendars which appear in the session course announcements published at regular intervals.

1956-1957 FALL SESSION

THURSDAY, SEPTEMBER 20

Classes begin

MONDAY, OCTOBER 1

Final date for removal of incomplete grades for 1956 Spring session

THURSDAY, NOVEMBER 1

Final date for removal of incomplete grades for 1956 Summer session

Final date for applications for degrees to be awarded at 1957 Commencement

MONDAY, NOVEMBER 12

Veterans Day holiday

THURSDAY, NOVEMBER 29-

SATURDAY, DECEMBER 1

Thanksgiving holidays

SATURDAY, DECEMBER 22

Last meeting of classes before Christmas vacation

MONDAY, DECEMBER 24-

SATURDAY, JANUARY 5

Christmas vacation

MONDAY, JANUARY 7

Classes resume

TUESDAY-MONDAY, JANUARY 22-28

Final examinations

1957 SPRING SESSION

THURSDAY, FEBRUARY 7

Classes begin

FRIDAY-SATURDAY, FEBRUARY 22-23

Washington's Birthday holidays

SUNDAY, FEBRUARY 24

Founders Day

MONDAY, APRIL 1

Final date for removal of incomplete grades for the 1956-1957 Fall session

SATURDAY, APRIL 13

Last meeting of classes before Spring vacation

MONDAY-SATURDAY, APRIL 15-20

Spring vacation, except at the Washington College of Law

MONDAY, APRIL 22

Classes resume

WEDNESDAY-FRIDAY, MAY 22-24

Final examinations in Spring session classes for candidates for degrees at 1957 Commencement, except at the Washington College of Law

THURSDAY, MAY 30

Memorial Day holiday

MONDAY-SATURDAY, JUNE 3-8

Final examinations, except at the Washington College of Law

SUNDAY, JUNE 9

Forty-third Annual Commencement

SUMMER SESSION DATES TO BE ANNOUNCED

1957-1958 FALL SESSION

THURSDAY, SEPTEMBER 19

Classes begin

TUESDAY, OCTOBER 1

Final date for removal of incomplete grades for 1957 Spring session

FRIDAY, NOVEMBER 1

Final date for applications for degrees to be awarded at 1958 Commencement

Final date for removal of incomplete grades for 1957 Summer session

MONDAY, NOVEMBER 11

Veterans Day holiday

THURSDAY-SATURDAY, NOVEMBER 28-30

Thanksgiving holidays

SATURDAY, DECEMBER 21

Last meeting of classes before Christmas vacation

MONDAY, DECEMBER 23-

SATURDAY, JANUARY 4

Christmas vacation

MONDAY, JANUARY 6

Classes resume

TUESDAY-MONDAY, JANUARY 21-27

Final examinations

1958 SPRING SESSION

FRIDAY, FEBRUARY 7

Classes begin

SATURDAY, FEBRUARY 22

Washington's Birthday holiday

MONDAY, FEBRUARY 24

Founders Day—not a holiday

SATURDAY, MARCH 29

Last meeting of classes before Spring vacation

MONDAY, MARCH 31-SATURDAY, APRIL 5

Spring vacation, except at the Washington College of Law

MONDAY, APRIL 7

Classes resume

Final date for removal of incomplete grades for the 1957-1958 Fall session

WEDNESDAY-FRIDAY, MAY 21-23

Final examinations in Spring session classes for candidates for degrees at 1958 Commencement except at the Washington College of Law

FRIDAY, MAY 30

Memorial Day holiday

MONDAY-SATURDAY, JUNE 2-7

Final examinations

SUNDAY, JUNE 8

Forty-fourth Annual Commencement

SUMMER SESSION DATES TO BE ANNOUNCED

1958-1959 FALL SESSION

MONDAY, SEPTEMBER 22

Classes begin

WEDNESDAY, OCTOBER 1

Final date for removal of incomplete grades for 1958 Spring session

MONDAY, NOVEMBER 3

Final date for applications for degrees to be awarded at 1959 Commencement
Final date for removal of incomplete grades for 1958 Summer session

TUESDAY, NOVEMBER 11

Veterans Day holiday

THURSDAY-SATURDAY, NOVEMBER 27-29

Thanksgiving holidays

SATURDAY, DECEMBER 20

Last meeting of classes before Christmas vacation

MONDAY, DECEMBER 22-

MONDAY, JANUARY 5

Christmas vacation

TUESDAY, JANUARY 6

Classes resume

MONDAY-SATURDAY, JANUARY 26-31

Final examinations except for Monday and Wednesday *evening* classes, which will have final examinations on January 19 and 21

1959 SPRING SESSION

MONDAY, FEBRUARY 9

Classes begin

MONDAY, FEBRUARY 23

Washington's Birthday holiday except for *evening* classes, which will meet as usual

TUESDAY, FEBRUARY 24

Founders Day—not a holiday

SATURDAY, MARCH 28

Last meeting of classes before Spring vacation

MONDAY, MARCH 30-FRIDAY, APRIL 3

Spring vacation, except at the Washington College of Law

SATURDAY, APRIL 4

Classes resume
Final date for removal of incomplete grades for 1958-1959 Fall session

WEDNESDAY-FRIDAY, MAY 20-22

Final examinations in Spring session classes for candidates for degrees at the 1959 Commencement, except at the Washington College of Law

SATURDAY, MAY 30

Memorial Day holiday

MONDAY-SATURDAY, JUNE 1-6

Final examinations

SUNDAY, JUNE 7

Forty-fifth Annual Commencement

SUMMER SESSION DATES TO BE ANNOUNCED

The University

Objectives of the University

It is the responsibility of a University faculty to reexamine periodically its own objectives so that it may have an identifiable guide to the development of its program, a basis for the evaluation of its achievements, and a coherent and readily understandable position which it may present to the public. During 1954-1955 a special committee of The American University faculty worked on this problem and the faculty approved the statement of objectives given below.

The American University, a coeducational institution in the capital of the United States, welcomes students and scholars of all races, creeds, and nationalities to its programs of liberal and professional education. Through its enterprises, it fosters friendship and the exchange of ideas among individuals representing many parts of the earth.

As a Protestant university affiliated with and supported by The Methodist Church, it emphasizes the contribution of the spiritual and ethical ideals of our religious traditions to the advancement of humanity. It recognizes a responsibility:

To help each student acquire an understanding of himself, of his fellow-men, and of mankind's accumulated cultural heritage.

To maintain high standards of scholarship and inquiry; encourage clear, critical, and objective thinking; and develop effective expression thereof.

To prepare men and women for the duties of participation and citizenship in a free society at the local, national, and international levels, through the activities of the University's organized social, religious, scholarly, and governing groups.

History of the University

The American University was chartered by an act of the Congress of the United States on February 24, 1893. A firm conviction existed in the minds of many prominent men that there was need for a protestant-related university in the nation's capital. Religious leaders, educators, statesmen, industry heads, and others worked together for a common ideal—the establishment of a university open to men of all faiths, which would emphasize the commitment of each individual to the creative potential inherent in a free society.

Bishop John Fletcher Hurst of The Methodist Church, one of the key figures in the university movement, selected the site of Fort Gaines as the location of the 75-acre uptown campus. This historic area, splendidly situated on one of the highest points in Washington, served as one of the major defense posts of the District of Columbia during the Civil War.

On May 14, 1914, President Woodrow Wilson and a distinguished group of statesmen, educators, and churchmen, formally opened The American University. Development was rapid, and in 1919 and 1920, the Downtown Center in the heart of metropolitan Washington was added to the University properties.

Out of the experience of the past the pattern and the program of the present have emerged. The College of Liberal Arts, established in 1925 to provide instruction at the undergraduate level, has since become the Undergraduate College. The graduate programs of the University have been merged in the Graduate School. Invaluable evening and Saturday programs also have been instituted, serving government and non-government workers in the greater Washington area. These are offered by the School of Social Sciences and Public Affairs, the University's evening division. Another milestone was reached in 1949 when the Washington College of Law became a professional division of The American University. The School of Business Administration was established in 1955. The Westminster Theological Seminary will be moved to the campus in 1958. Plans are now being made for the organization of a School of International Studies, and for a School of Nursing to be centered in the Sibley Memorial Hospital which will be constructed on the Uptown Campus.

At no time in the history of the University has there been greater clarity of purpose or a more vigorous enthusiasm for the future. This new spirit pervades not only The American University, but its supporting churches and its independent constituency as well. Plans for the future embrace a continuous improvement of program, expansion of facilities, and the addition of other schools or colleges as occasion may make appropriate.

Undergraduate College

The Undergraduate College, founded in 1925 to provide the best program possible in the small college tradition of the arts and sciences, offers both the junior college (two-year) program and the conventional senior college (four-year) program. The former leads to the associate degree and the latter to the bachelor's degree.

A number of undergraduate students in our four-year colleges do not continue there the full four years and therefore never receive a college degree or diploma. To meet the needs of this group the junior college 63-hour program of the Undergraduate College has been inaugurated. It emphasizes work in the humanities, the social sciences and the natural sciences with a limited number of courses in the student's field of special interest.

The prevailing number of undergraduate students desire to complete the regular four-year program. Pages 33-35 outline the requirements for the bachelor's degrees and emphasize the importance of a broad general education in the humanities, social sciences, and natural sciences combined with a field of specialization leading to reasonable competence in one of the important fields of knowledge.

The objectives of the Undergraduate College are:

- To provide students with adequate information about the world in which they live.
- To develop skills—intellectual, social, and vocational—which will enable them to live successfully in the contemporary world.
- To develop interests appropriate to adequate personal and professional adjustment to our age.
- To encourage the development of attitudes and beliefs consistent with our ethical and religious heritage.
- To encourage the development of patterns of behavior consistent with the best in our tradition.

The fundamental liberalizing experience of the American undergraduate college is the core of higher education. Whatever the vocational or professional life objective may be, the achievement of intellectual and emotional maturity properly motivated is the central ingredient of the successful and full life. The mission of the College is to produce citizens—intelligent, understanding, wise, and dedicated to the finest in our spiritual and cultural heritage. This does not exclude preparation for vocational or professional competence, and many of the specialized programs of the Undergraduate College are designed to achieve this end. The cultural and vocational objectives are complementary and combine to round out the student's total education.

School of Business Administration

Established in 1955, the School of Business Administration prepares men and women at the undergraduate and graduate levels for positions of executive responsibility in private enterprise, education, in the military organization, in government, and in other fields of activity which emphasize competence in business management. Built upon a careful sequence of courses, the program of the School prepares students for many and varied fields and the training it provides grows more valuable and fruitful as it is supplemented by business experience.

The School of Business Administration believes that its graduates must clearly understand and apply these fundamental principles:

The final measure of efficiency of the modern business unit in terms of operations and contribution to our economy is its profitability. Without fair profit no business enterprise endures. Without profit and private enterprise the American achievement would have been impossible.

The realization that today business is a profession and that the business leader is also a leader in our society. As such he must not only bring knowledge, competence, and understanding to the business unit but also must maintain high ethical standards. That the business unit must contribute to the advance of our society as well as to its own advance by meeting responsibilities to employees, stockholders, and the general public by increasing the amount of goods and services available at the lowest possible cost.

The realization that modern business organization bears a responsibility to our social organization and must strive continually to strengthen our society.

To provide a foundation for immediate on-the-job success as well as for continued advancement to positions of increased responsibility, the School seeks to develop in each student the ability to:

Think and analyze business problems.

Coordinate men, machines, and materials into profit-making activity.

Analyze operations in terms of measured facts for purposes of planning and control. Find needed information and appraise its accuracy and usefulness.

Present ideas effectively, orally and in writing, and use such ideas in formulating plans and policies.

Recognize the social and civic obligations of business and the business man.

Deal with agencies of government in business relationships.

Deal with people easily on the democratic human relations basis of our free enterprise system.

Business administration students know from their own experience, the experience of their predecessors, and from the demands of employers, the importance of a business major built upon a firm foundation of general education. To make certain that its programs meet the highest possible standards of professional education and general educational development, that it truly prepares men and women for executive responsibilities, the School looks to its Business Advisory Committee, composed of distinguished business executives. The Committee serves as a channel of communication between the School of Business Administration and the business world.

Washington College of Law

The Washington College of Law, founded on February 1, 1896 as an independent coeducational law school, was incorporated in the District of Columbia in 1898. In 1949, the Washington College of Law became a professional division of The American University. It provides both day and evening schedules in a complete program of studies leading to the degree of Bachelor of Laws. The College is fully accredited. It is a member of the Association of American Law Schools and approved by the American Bar Association. In addition the College meets the requirements for preparation for the bar in all states and carries the special certification of the United States District Court for the District of Columbia as well as the New York State Department of Education.

The program of the Washington College of Law is designed to provide a thorough legal education, to prepare students for the practice of law in any of the states, and to give the professional foundations for a legal career. The College seeks further to develop in each student a consciousness of the responsibility of the lawyer to society for the improvement of the law and human welfare, whether in public or private pursuits.

To accomplish these objectives, the curriculum and student activities are designed to combine knowledge of legal principles with the ability to apply them.

The faculty presents courses in a manner planned to develop in the student:

An understanding of the underlying principles of law.

The power of analysis to the end that he may exercise sound judgment and discrimination in the practical application of those principles.

An awareness of the relationship between jurisprudence and the social organization.

The use of legal research tools and techniques.

A sharpened and creative imagination so that legal principles may be adapted to new and ever changing situations.

The College employs the "case method" of instruction as it has been developed in modern materials, supplemented by seminars, independent research projects and moot court work at both trial and appellate level. Selected cases are studied in each course to provide abundant opportunity for each student to exercise his own reasoning power in solving legal problems.

Washington, the capital of the nation, offers the law student an unparalleled opportunity to observe the day-to-day development of the law. Here is the greatest legal laboratory in the world, affording first hand glimpses of the processes of the law, from the determination of the smallest claim to the constitutionally epoch-making decisions of the Supreme Court of the United States. Here are housed the great administrative agencies of the federal government whose activities daily affect the lives of every citizen. Here is the Congress where all federal laws are made, and the Department of Justice, charged with the enforcement of those laws. Here, too, are the Library of Congress and the specialized libraries of government departments containing the greatest collection of legal research materials in the world. Here, in short, is an unequalled repository of law.

Graduate School

The American University was established as an institution devoted exclusively to graduate study and research. As the heir to this basic tradition the Graduate School has enjoyed a unique success in meeting the challenge of service at the highest academic level in the nation's capital and in training men and women for outstanding positions in national, international, and business affairs as well as for the academic world. Its reputation as one of the country's dynamic graduate institutions rests firmly on the strength of its faculty, on a program developed to take advantage of the research facilities of the capital city, and on a student body drawn from leading universities in the United States and in foreign countries.

In the classroom the graduate student at The American University meets the members of a distinguished faculty and leading experts from government and business who deal with the complex problems of modern society and introduce the student to the latest developments in their fields of research. Because of the small size of classes, the student enjoys close personal relationships with his instructors and with his fellow students, many of whom hold positions of responsibility and contribute materially to the level of classroom discussion. Degree programs are designed to make optimum use of the manifold intellectual resources of the nation's capital. They include seminars and opportunities for systematic reading and research and thus give the graduate student a considerable degree of freedom in pursuing his interests and in acquiring experience in research. Research may be conducted under the joint auspices of the Graduate School and one of the many agencies or institutions of Washington that over the years have cooperated effectively with the University, making available their rich stores of documentation and their highly advanced techniques.

For almost two decades the Graduate School concentrated its resources in the fields of the social sciences and in the area of public administration, stressing political, social, and economic theory as well as practical applications to the everyday problems of government. More recently the School has broadened its objectives by providing degree programs in art, business administration, mathematics, chemistry, education, English, and music. In doing so it has begun to carry out more fully the mandates imposed upon it by the University's charter.

School of Social Sciences and Public Affairs

Dedicated to the ideals of adult education and convinced of its importance in modern society, the School of Social Sciences and Public Affairs, the evening division of The American University, offers its services to men and women in the Federal government, to the staffs of international agencies, and to the members of the Washington community. To carry out its mission it uses all of the University's resources to provide a rich program of evening and Saturday courses, graduate as well as undergraduate.

Programs offered by the School enable the parttime student—government employee, business man, teacher, or housewife—to earn at night any of the degrees offered by the University. The School also provides, for those desirous of demonstrating competence in a limited field of academic endeavor, certificate programs calling for 24-30 hours of basic and specialized studies. Certificate programs are available in the areas of Archives Administration, Executive Development, Governmental Supply Management, Organization and Management, Public Budgetary Administration, Public Opinion and Propaganda Analysis, Public Personnel Administration, Police Administration, and Records Administration. Students of business administration should be particularly interested in the Certificate of Proficiency in Accounting and in the Executive Certificate Program.

Conscious of its mission, the School of Social Sciences and Public Affairs opens its doors freely to the parttime student who, without a degree or certificate objective, wishes to enroll in individual courses for the sake of needed knowledge or to pursue his cultural interests. Special counseling and simplified admission procedures are provided for such students.

The regular courses of the School are supplemented by intensive institutes designed to meet the needs of professional groups. Some of the institutes, such as those in archives administration, transportation, and that on the position of the United States in world affairs, are intended to throw open to persons in the country at large the rich store of information and know-how available on the Washington scene. Other institutes are offered to assist members of the Washington community to develop its full potentialities and to provide training to a steadily-widening circle of adult students. During the past twelve years more than 4,000 students from the United States and foreign countries have enrolled in The American University's various institutes.

To make its educational opportunities more widely available the School of Social Sciences and Public Affairs conducts a program of undergraduate studies at St. Elizabeth's Hospital. It also offers specially planned course sequences at the Pentagon and other government installations.

As the University's adult education division, the School maintains close contacts with civic groups and participates actively in their efforts to make Washington a city worthy of its role in national and international affairs.

The Washington Semester

The Washington Semester Program is administered by The American University through its Department of Government and Public Administration, with the cooperation of some seventy colleges and universities throughout the United States. The program provides an opportunity for selected honor students from these institutions to spend a semester in Washington in intensive study of government in action. The program centers around the Washington Semester Seminar, in which students meet with government officials and scholars living in the Washington area and participate in field trips to observe government in action. In addition, each Washington Semester student engages in independent research upon a governmental problem or activity, culminating in a research paper, designed to give the student a depth understanding of a specific governmental area. Institutions associated with The American University in this program are listed on page 29.

American Language Center

The American Language Center was established in 1952 under a grant from the United States Department of State and with the cooperation of embassies and other official and private international agencies. The Center offers intensive instruction to foreign visitors and foreign students in the English language, with incidental study of the history, government, customs, geography, economics, and culture of the United States. In addition to students who are assigned to classes by government agencies, the American Language Center accepts foreign students who wish to prepare themselves for further study in higher educational institutions in the United States or who wish to increase their competency in English for business or professional reasons. A student seeking admission to the Center must be sponsored by a college or university in the United States or submit a letter of recommendation from the embassy of his native country in Washington. In the first three years of its operation the Center has given instruction to more than 2,600 students from 65 different countries.

Six-week courses are offered continuously throughout the year, with classes meeting 20 hours each week. Upon arrival at the Center each student is tested and assigned to a class with others of similar English competence. The course includes a systematic study of pronunciation, grammar, vocabulary, and written composition, and particular emphasis is given to the understanding of everyday English as it is spoken in the United States.

The language needs of individual students usually vary. A student who has little or no previous English training may need to study at the Center for three or more terms (of six weeks each) before he has sufficient English to carry on a successful program of studies in a university. Students interested should consult the director of the American Language Center.

Division of Research

The American University is committed to an interest in research and has therefore created a Division of Research which administers all research projects within the University in whatever area they may fall. Due to the large number of studies in fields of the social sciences the work in this area is conducted under the direction of a special Bureau of Social Science Research within the Division. Work is undertaken for foundations, government agencies, business organizations, and other public and private interests. The desire of the University is to involve faculty members and a limited number of graduate students in the work of this Division so that it maintains a close working relationship with the instructional program of the institution. A continuing faculty committee assists in coordinating the work of this Division and that of the various departments of instruction.

Human Relations Area Files

In 1955 the Human Relations Area Files, whose headquarters is located at Yale University, New Haven, established its Washington Branch at The American University. This private, non-profit corporation is sponsored by a group of sixteen universities, all of whom are engaged in training graduate students for interdisciplinary research in the behavioral sciences. The Washington Branch is engaged in research on methods of interdisciplinary research and in the writing of basic background studies on the cultures of the various peoples of the world.

Facilities

Facilities of the University are located on the Uptown Campus at Massachusetts and Nebraska Avenues and at the Downtown Center, which includes buildings between 19th and 20th Streets on F Street and at 2000 G Street. The Uptown Campus houses the administrative offices of the University, the Undergraduate College, the School of Business Administration, and the University residence halls. The Downtown Center houses the administrative offices of the Washington College of Law, the Graduate School, and the School of Social Sciences and Public Affairs.

Uptown Campus

The original campus of the University, acquired in 1891, is located on the highest hilltop in northwest Washington. The 75-acre campus has the quiet atmosphere traditionally associated with colleges and universities located far from metropolitan centers but it is only 20 minutes by public transportation to the heart of downtown Washington. Buildings located on the Uptown Campus include:



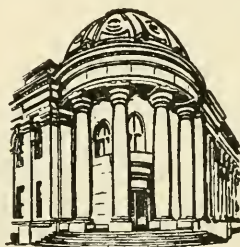
ulity offices. The *Daniel C. Roper Carillon* (1946), a gift in memory of Daniel Calhoun Roper, is in this building.

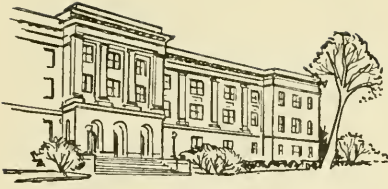
Hurst Hall (1898)

A three-story Vermont marble structure of Ionic architecture, named to honor Bishop John Fletcher Hurst. Hurst Hall contains the administrative offices of the Undergraduate College, classrooms and laboratories, and fac-

McKinley Hall (1917)

A three-story Vermont marble structure named to honor William McKinley, 25th president of the United States. It contains the administrative offices of the University, of the School of Business Administration, and of the American Language Center, as well as classrooms, faculty offices, and the student lounge.





Mary Graydon Hall (1925)

A four-story white-stone residence hall for women named to honor Mary Graydon, a benefactress of the University. On the first floor are located the University Health Service offices, the dining room, the coffee shop, and the student bookstore for the Uptown Campus.



President's Residence (1925)

A colonial-type home occupying a high spot on the Massachusetts Avenue side of the campus.



Clendenen Gymnasium (1926)

Named to honor Patrick Clendenen, a benefactor of the University, this building is the center of physical education and recreation activities for women. The gymnasium also houses The American University Players, and the Washington Semester lounge.

Battelle Memorial Hall (1926)

A three-story white-stone building named to honor its donor, Gordon E. Battelle. Battelle Memorial Hall houses the library collection of the University on the Uptown Campus.



Hamilton House (1930)

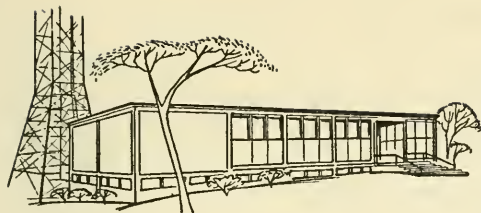
A three-story gothic fieldstone residence hall for Freshmen women named to honor Bishop John W. Hamilton and Bishop Franklin Hamilton, formerly chancellors of the University.



Leonard Center (1943)

A large building on the campus east of Massachusetts Avenue which serves as the center for physical education and recreation activities for men and includes a gymnasium, swimming pool, bowling alleys, and the athletic offices of the University. Located in this building are the offices of the Division of Research and of the Washington Office of the Human Relations Area Files, Incorporated.





Evening-Star TV-Radio Buildings (1953)

This building, provided by The Evening Star Broadcasting Company, contains modern studios for the University's courses in television and radio production and for the campus radio station WAMU, in addition to offices and classrooms.

Clark and Roper Houses (1954)

These identical dormitories, providing accommodations for more than 110 students, represent the first units of a proposed new dormitory quadrangle which when completed will consist of several other buildings similar in design and appearance.



Downtown Center



Graduate School and School of Social Sciences and Public Affairs

The buildings on F Street, between 19th and 20th Streets, house the administrative offices of the Graduate School and the School of Social Sciences and Public Affairs, as well as classrooms, the student bookstore for the Downtown Center, and the Downtown branch of the University Library.

Washington College of Law

The building at 2000 G Street houses the administrative offices of the Washington College of Law, and also contains classrooms and the specialized law library of the University.



Library

The University Library maintains general and specialized collections on the Uptown Campus, at the Downtown Center on F Street, and at the Washington College of Law. The libraries include 162,576 volumes as well as maps, manuscripts, documents, and phonograph recordings. The library staff issues two publications, one a bulletin of information about new books and events relating to the library, the other a handbook on the use of libraries for students.

The University Library at the Uptown Campus is housed in Battelle Memorial and contains approximately 70,191 books, pamphlets, documents, and recordings. The Uptown Campus library building contains open stacks and reading rooms, and is equipped with special music listening rooms.

The library at the Downtown Center is located at 1907-1911 F Street, N.W. and contains approximately 70,000 books, maps, pamphlets, and documents.

The library of the Washington College of Law, at 2000 G Street, N.W. contains over 21,000 volumes including the United States Statutes, the decisions of the Supreme Court and the lower federal courts and administrative tribunals, the codes of federal and local laws, early state reports, and legal periodicals.

The Library collection has been enriched by several gifts of which the following are outstanding:

Artemas Martin Mathematical Library—A unique collection of approximately 5,000 rare volumes and manuscripts in the field of mathematics and mathematical instruction, donated by the late Artemas Martin and housed on the Uptown Campus.

Mrs. Parmalee Prentice Gift—A collection of approximately 500 phonograph records and 200 musical scores given by Mrs. Parmalee Prentice, who also provided equipment for the University's music listening rooms. This collection is located on the Uptown Campus.

James Brown Scott Library—A collection of volumes in the field of international and comparative law, donated by Dr. James Brown Scott and housed in the library of the Washington College of Law.

Teaching Institute of Economics Library—A collection of books on economics collected during 1945-1950 and purchased from grants from the Alfred P. Sloan Foundation. The library is integrated in the general collection at the Downtown Center.

Korean Foundation Collection—A collection of books on Korea purchased with funds donated by the Korean-American Cultural Foundation. The books are integrated in the collection of the library on the Uptown Campus.

American Peace Society Library—This collection established by the American Peace Society is on deposit with the University and is housed on the Uptown Campus. It contains approximately 10,000 volumes.

League of Nations Information Service Library—A collection of more than 10,000 documents and publications of the League of Nations developed and donated by the late Kate Trenholm Abrams. It is housed in the Downtown Center library.

Bradley Collection—A specialized library of 800 volumes in French and Spanish devoted chiefly to the history of the Caribbean area and of France in the 18th and 19th centuries, located on the Uptown Campus.

L. M. Alexander Endowment—A fund for the continuing purchase of books in the field of economics.

Class Gifts—The graduating classes of 1936, 1938, 1942, and 1949 have collected small sums and donated them to the library for books of general interest. Many of these funds have been used to maintain the Golder Memorial browsing collection established by the class of 1936. The books are housed in the library of the Uptown Campus except those provided by the class of 1949, which are a part of the collection at the Downtown Center.

Residence Facilities and Services

Residence Halls

Fulltime undergraduate students not residing with parents or relatives are required to live in residence halls located on the Uptown Campus. Fulltime graduate and law students may reside in University dormitories if space is available. Applications for dormitory rooms should be addressed to the Office of the Assistant to the President, Massachusetts and Nebraska Avenues, N.W., Washington 16, D.C., and accompanied by a deposit of \$25. This deposit is not refundable unless reservation is cancelled at least 6 weeks before the opening of the session for which it has been made. It will be held over from session to session as long as the student continues in residence. Within 30 days after graduation or withdrawal from the University the deposit will be refunded to the student, less any unpaid obligations.

Students residing in each dormitory elect members of a house residence council which cooperates with the proctor or resident faculty adviser in the supervision of dormitory affairs under the general rules and regulations issued by the office of the dean of students. Each dormitory council sends representatives to meetings of the House Council (women) or Men's Residence Council where the student viewpoint on problems of campus living is discussed and presented to the administration of the University.

A student may not continue occupancy of a dormitory room in any session in which he is not registered as a fulltime student. All students except those receiving degrees must vacate their rooms within 24 hours after their last examination preceding commencement. Graduating seniors in residence may continue to occupy their rooms until noon of the day following commencement. During the Christmas, mid-year, Easter, and other vacation periods the residence halls are officially closed. *Students may not reside on the campus during these periods without the permission of the dean of students and payment of a special fee of \$2 a day.*

Students in residence in dormitories or apartments must observe all University rules and regulations and will be held responsible for any damage done to rooms during their occupancy. Drunkenness and the use of intoxicants on University premises or at any University function are forbidden. A student who fails to comply with University regulations may be required by the dean of students to relinquish his room at any time without notice.

Student Lounge

The student lounge in the McKinley Building provides a gathering place for resident and non-resident students. The lounge is equipped with reading and recreational areas.

University Dining Room

The University dining hall is located in Mary Graydon Hall on the campus. Fulltime undergraduate students who live in a University dormitory must purchase a meal ticket providing three meals a day for five days (Monday through Friday) or for seven days (Monday through Sunday) a week during Fall and Spring sessions.

The University can assume no responsibility for students requiring special diets which differ from the standard menu served in the dining room.

Several private dining rooms are available for student and faculty groups which wish to arrange luncheon or dinner meetings. A coffee shop is operated for the convenience of students during periods when the dining room is closed.

University Health Service

The University Health Service is available to all fulltime undergraduate students, to all students who reside in University dormitories, and to all other students who pay the health fee each session. Students are entitled to consultations with the University Physician and to not more than seven days of hospitalization in the University infirmary during the academic year (Fall and Spring sessions) without charge except for meals (for students without meal tickets).

At the infirmary ordinary medical care and advice is rendered for most minor illnesses. The cost of X-ray examinations, special medications, appliances, application of casts, operating room and anesthetic charges, as well as the fee for specialists and surgical services, must be paid for by the individual student. Students who wish to participate in a Group Student Accident Insurance plan providing insurance against injuries should consult the nurse on duty in the infirmary.

Health examinations by the University Physician are required of all new fulltime undergraduate students entering the University. The examinations are scheduled during the fall orientation week program so that they do not conflict with other scheduled activities.

Student Life

The American University recognizes that a broad co-curricular program is an important phase of the educational process. Student affairs and activities provide intimate interest groups for the cultivation of personal relationships and the definition and direction of special aptitudes. The University believes that participation in this program provides personal experience in the conduct of organizations and enriches student life.

Student Government

Opportunity to assume important responsibilities and authority in the conduct of co-curricular activities is given to all students at The American University. Self-government enables students to enjoy the privilege of planning and managing their own affairs through elected representatives to the College Council of The American University Student Association. The College Council, which selects its own faculty advisers, is the highest governing student body and plays a vital role in the progress and program of the University. Meeting weekly this Council makes plans, appropriates funds, and coordinates the activities of its member organizations. Its president is chosen in an election held each spring in which all fulltime undergraduates may vote. The detailed work of the Council is done by various boards which assume responsibility for specific areas of student interest and which make recommendations and requests to the parent organization. These include the Arts Board, the Athletic Board, the Communications Board, the Elections Board, the Orientation Board, the Publications Board, the Religious Board, the Scholastic Achievement Board, and the Social Board.

Eligibility Rules

A student is eligible for general participation in student activities (a) when he is enrolled in the University as a fulltime student or (b) when as a parttime student he has paid the regular student activities fee. Student organizations, by their own charters, may have higher standards for membership.

Students who are admitted to the University with conditional standing or who are on academic or disciplinary probation may not hold office in student organizations or represent the University in any capacity. This is not to be interpreted as precluding the privilege of reasonable activity in the affairs of these organizations by conditional or probationary students.

A student entering the University with advanced standing is eligible to participate in student activities immediately upon the completion of his registration.

Eligibility for intercollegiate athletics is determined by the Committee on Student Personnel of the faculty under the regulations of the Mason-Dixon Conference and the National Collegiate Athletic Association. A student is ineligible for all intercollegiate athletics after eight sessions of attendance at the University.

Honorary and Professional Societies

One of the most satisfying achievements any student can experience during his University career is election to one or more honorary or professional societies. This is a signal honor awarded in recognition of outstanding performance in particular fields.

There are local chapters of the following national honorary organizations at The American University:

Alpha Eta Rho—*International Aeronautic Fraternity*
Alpha Phi Omega—*National Service Fraternity*
Alpha Psi Omega—*Dramatics*
Beta Beta Beta—*Biology*
Chi Psi Omega—*Graduate (men)*
Delta Phi Alpha—*German*
Delta Sigma Rho—*Debate*
Kappa Delta Epsilon—*Education (women)*
Kappa Phi Kappa—*Education (men)*
Omicron Delta Kappa—*Leadership (men)*
Phi Delta Theta—*Professional Women's Press*
Phi Delta Gamma—*Graduate (women)*
Pi Delta Epsilon—*Radio and Journalism*
Pi Gamma Mu—*Social Science*
Pi Sigma Alpha—*Political Science*
Sigma Delta Chi—*Professional Men's Press*

In addition, the University supports three local honorary societies:

Cap and Gown—*Junior and senior women selected for scholarship, leadership, and participation in student activities*
Omicron Epsilon Pi—*Poetry*
University Honor Society—*Seniors selected for high scholastic standing*

Fraternities and Sororities

Seven national Greek-letter social societies are active on The American University Campus. Their programs and activities are supervised by the men's Inter-Fraternity Council and the women's Pan-Hellenic Council. The fraternities and sororities are:

Men

Alpha Sigma Phi
Alpha Tau Omega
Phi Sigma Kappa

Women

Alpha Chi Omega
Delta Gamma
Kappa Delta
Phi Mu

Four national Greek-letter legal societies are active at The American University's Washington College of Law. These are:

Men

Sigma Nu Phi
Delta Theta Pi

Women

Kappa Beta Pi
Phi Delta Delta

Student Publications

The American University Eagle is a weekly newspaper published and edited by students of the University. The editor and business manager are appointed by the College Council on nomination of the Publications Board.

The Aucola, the University yearbook, is published by the College Council. The editor and business manager are elected on nomination of the Publications Board

and the activities of the several schools of the University are presented in this annual.

Another important project of the Publications Board, in cooperation with the department of English, is the Literary Magazine. This magazine is designed to encourage literary creativity on the part of students and regularly contains work of impressive quality.

The Freshman Handbook is produced annually by the Orientation Board and the Office of the Assistant to the President. It is designed to acquaint all incoming students with the traditions, regulations, and facilities of the University.

The students of The Washington College of Law publish the semi-annual Intramural Law Review, a professional journal which contains student articles on legal subjects of current interest.

Student Clubs and Organizations

The College Council has approved the organization of student clubs in almost every area of student interest in the University's over-all program. Many of these groups are related to academic departments, many are established as purely extra-curricular activities. Among the various organizations open to all students are the following:

Women's "A" Club	Interfraternity Club
Art Guild	International Relations Club
Aquiana	Lutheran Group
Art Student's Committee	Mathematics and Physics Club
Baptist Student Union	Methodist Student Movement
Canterbury Club	Music Club
Cheerleaders	Newman Club
Chemistry Club	Pan American Club
Chorus	Panhellenic Council
The Clef	Political Club
College Council	Pan Anthon Club
Chess Club	The American University Players
Deutsche Verein	Radio and TV Guild
Economics Club	R.N. Club
Junior Alliance Francaise	Society for the Advancement of Management
Future Teachers of America	Sociological Society
Hillel	Student Christian Fellowship
History Club	Varsity "A" Club
Independents Club	

Radio Workshop

As part of its program of radio and television studies, the University maintains a student radio station, WAMU. A member of the Intercollegiate Broadcasting System, this student-operated radio station produces daily programs during the school year. Open to all students interested in the operation of a radio station, WAMU maintains fully-equipped studios, control room, and news room in the Evening Star TV-Radio Building on the campus.

Dramatic and Musical Organizations

Under the direction of the department of Music, The American University supports a wide variety of musical groups. The American University chorus, carrying one semester hour of academic credit, numbers more than sixty singers. One

of the highlights of each academic year is the annual Christmas concert presented just before the beginning of the Christmas recess.

Members of the chorus form The American University Choir which appears at all chapel services. The American University Orchestra gives several public concerts annually and in addition accompanies the mixed chorus at the Christmas concert.

The American University Players present four major productions a year as well as several student-directed plays. The annual spring production in the outdoor Woods-Brown Theatre is a highlight of the Mother's Day weekend activities. Besides The University Players, for which any student is eligible for membership, there is an active chapter of Alpha Psi Omega, the national honorary dramatic fraternity, at the University.

Intercollegiate Athletics and Intramural Sports

The University competes in ten intercollegiate sports with colleges and universities of the eastern seaboard. Eligibility for participation is governed by rules established by the Committee on Student Personnel in accordance with the recommendations of the National Collegiate Athletic Association and the Mason-Dixon Intercollegiate Conference.

The department of Physical Education conducts a comprehensive intramural and extramural sports program for men and women with emphasis on carry-over sports which may be enjoyed after graduation.

Chapels and Convocations

A chapel or convocation is held each week during the fall and spring sessions. Drawing upon the resources, both religious and cultural, of the nation's capital this series contributes substantially to the richness of the life of the University community. The chapels, arranged by the Religious Board, are regularly held in the Metropolitan Memorial Methodist Church adjoining the campus. The convocations, arranged by the Scholastic Achievement Board, are held in the Glover Room of Hurst Hall. Students and faculty are urged to attend these occasions. Special programs are planned for the annual Founders Day and Honors convocations and for the traditional Senior chapel held just before the close of each academic year.

Alumni Association

At present, over 6,000 men and women enjoy membership in the Alumni Association, which is open to graduates of all divisions of the University. Governed by the Alumni Council, and including all past presidents of the Association as well as 11 members elected annually by the entire membership, the Alumni Association serves as the major tie for maintaining relationships with friends and faculty following graduation.

Alumni activities are coordinated by the University's alumni office located on the uptown campus. In these permanent quarters, alumni visitors are made welcome at all times. A quarterly magazine, *The Lodestar*, containing alumni news and general information is edited and published by the Alumni Secretary. In addition to arranging for the participation of alumni in such special events as Homecoming and Alumni Weekend, the Alumni Secretary also maintains complete personal records on all University graduates.

Admission Requirements

Applications are accepted for admission during any session (Summer, Fall, Spring.) A student may apply for admission to a degree program at The American University, to earn credits for transfer to another institution in which he is enrolled, or to attend individual courses in which he has a professional or personal interest. All students must clear their admission status before they may register for courses. Inquiries concerning admission to the University should be addressed to the Office of the Assistant to the President, Massachusetts and Nebraska Avenues, N.W., or 1905 F Street, N.W.

Undergraduate College and School of Business Administration

Applicants for admission to the Undergraduate College and the School of Business Administration must submit official transcripts of all previous academic work. Applicants for admission as fulltime students must also submit a health certificate on a form available from the University and a non-refundable application fee of \$5.

Freshman standing—Graduates of accredited secondary schools who have completed 15 acceptable units (at least ten of them in academic or college preparatory subjects) with at least a C average, and who rank in the upper half of their graduating class may be admitted to full freshman standing.

Advanced standing—Graduates of a college transfer program in an accredited junior college or students of other accredited colleges or universities who have maintained a satisfactory average may be admitted to full standing and receive credit for acceptable work completed with a grade of C or better. Graduates of accredited junior colleges may transfer a maximum of 63 hours of work and may ordinarily enter on the junior year of work at this University.

Conditional standing—The Committee on Admissions may in certain cases admit to conditional standing those students who do not meet all the admission requirements of the University in cases where extenuating circumstances appear to the Committee to explain any deficiency in the admission requirements.

Washington College of Law

Applicants for admission to The Washington College of Law must present a satisfactory undergraduate record showing the completion of at least three-fourths of the work required for a baccalaureate degree granted on the basis of a four-year program of study pursued in an approved college or university. To meet this requirement an applicant must have completed at least 90 semester or 135 quarter hours of college work, exclusive of credits earned in non-theory courses such as military science, hygiene, domestic arts, physical education, vocal or

instrumental music, or courses without substantive content, with a scholastic average at least equal to the average required for graduation in the institution attended. A baccalaureate degree granted by an accredited college or university will satisfy these admission requirements. All applications must be accompanied by an application fee of \$5.

Each applicant must submit a complete transcript of his academic record showing right to honorable withdrawal from the institution from which credit is offered. Letters from responsible persons, including attorneys-at-law, certifying to the character and ability of the applicant may be required.

No applicant will be officially admitted or credited with attendance until proper credentials have been filed and approved. Applicants are advised to complete their admission well in advance of the opening of classes.

Although not a prerequisite for admission, prospective applicants are encouraged to take the Law School Admission Test administered by the Educational Testing Service, Princeton, New Jersey.

The College does not prescribe a fixed program of pre-legal studies as a condition of admission. Pre-legal education involves education for comprehension and expression, critical understanding of the human institutions and values with which the law deals, creative power in thinking, and training for the intellectual discipline required for professional competence. Pre-legal education may be pursued in any well balanced academic program directed toward an undergraduate bachelor's degree. Courses especially valuable to the pre-law student include English composition, speech and literature, economics, philosophy, American and English political history, and American government. A basic knowledge of accounting is a valuable asset to the prospective lawyer.

Graduate School

Applicants for admission to the Graduate School must submit official transcripts showing that they have received a bachelor's degree from an accredited four-year college or university and listing the courses they have completed. All graduate students enrolled in degree programs must meet the admission and graduation requirements established for the Graduate School regardless of the field or school in which they pursue work for a degree.

Applicants for admission as fulltime students must also submit a non-refundable application fee of \$5. Admission to the Graduate School does not constitute admission to candidacy for a degree.

Full standing—Graduates of accredited four-year colleges or universities who have completed an undergraduate major of at least 24 hours with a grade of B or better in the field in which they propose to continue graduate work or in a closely related field may be admitted to full standing.

Qualified standing—Applicants for admission whose record shows a deficiency in their undergraduate work may be admitted to qualified standing and may be required to complete additional course work to remedy the deficiency. The status of a student admitted to qualified standing will be reviewed after the completion of at least 12 but not more than 24 hours of work in residence at this University and he will not be permitted to re-register unless this review establishes his eligibility for full standing.

Non-Degree Students

The American University accepts applications from students not interested in a degree program who wish to enroll in courses to broaden their cultural or professional background.

Special students—Applicants who are over 21 years of age and who give evidence that they have the necessary background for courses in which they wish to enroll may be permitted to register as special students in the Undergraduate College and the School of Business Administration or (under certain circumstances) the Washington College of Law. Special students may not register for more than 10 hours of course work in any fall or spring session and they may not apply credits earned toward a degree unless they establish their eligibility for admission to full standing as of the time of their first registration as a special student.

Non-degree graduate students—Graduates of accredited four-year colleges or universities who do not wish to earn credits toward an advanced degree at The American University may be permitted to enroll in the Graduate School as non-degree students on the submission of a certificate indicating they hold an acceptable bachelor's degree.

Transfer credit students—Candidates for undergraduate or graduate degrees at an accredited college, university, or law school, may be permitted to enroll in courses at The American University for transfer credit on the basis of a statement from the dean or registrar of their own institution certifying that they are students in good standing and that the credits earned will be acceptable for transfer to their college or university.

Auditors—Auditors may be permitted to enroll in individual courses for which they have the necessary background provided they secure the approval of the non-degree student counselor or the departmental chairman in charge of the courses. Auditors do not take examinations and receive no academic credit or grade. They may not apply for a change from non-credit to credit status after the end of the second week of any fall or spring session in which they have enrolled as auditors. Tuition and other charges are the same as those for students enrolled for academic credit. Veteran students entitled to educational benefits may not register as auditors at government expense.

Foreign Students

Foreign students who are applicants for admission must in addition to the usual admission requirements supply certified English translations of all foreign credentials submitted and a certification of their ability to use the English language with sufficient facility to pursue academic work in an English-speaking university.

Washington Semester Students

Students enrolled in the institutions listed below may apply for selection to the Washington Semester Program which provides an opportunity for intensive study of government in action in the nation's capital. Students interested should consult the Washington Semester Program advisers at their own colleges or universities. Institutions participating in the program in the fall of 1955 are as follows:

Alfred University
Allegheny College
The American University
Augustana College
Baldwin-Wallace College
Beloit College
Bethany College
Birmingham-Southern College
Boston University
Bucknell University
Centre College of Kentucky
Clark University

The College of Wooster
Cornell College
Davidson College
Denison University
DePauw University
Dickinson College
Doane College
Drew University
Earlham College
Emory University
Florida Southern College
Grinnell College

Hamline University
Haverford College
Heidelberg College
Hillsdale College
Hiram College
Hollins College
Hope College
Hunter College of the City of New York
Iowa Wesleyan College
Lake Forest College
Lehigh University
Lewis and Clark College
Lindenwood College
Linfield College
Mary Baldwin College
Millikin University
Mills College
Monmouth College
Muskingum College
The Nebraska Wesleyan University
Oberlin College
Ohio Wesleyan University
Oklahoma Baptist University
Otterbein College
Pacific University

Park College
Pennsylvania College for Women
Philander Smith College
Pomona College
Rockford College
Rollins College
Shepherd College
Simmons College
Simpson College
Southwestern College
Stetson University
Syracuse University
Swarthmore College
Transylvania College
Union University
University of Pittsburgh
University of Redlands
The University of the South
Valparaiso University
Wabash College
Washington College
Western Reserve University
Westminster College
Willamette University

Academic Information

The paragraphs below summarize current academic regulations governing students of The American University. Additional information may be found in the section on graduation requirements that follows and in special publications of the various colleges and schools. Academic regulations are subject to change at any time by action of the faculty.

Academic Load

A fulltime student registers for 12-18 hours during the fall and spring sessions and for at least 5 hours during any intensive summer session. A student employed more than 20 hours a week must register as a parttime student. During the fall and spring sessions a parttime student may register for no more than 10 hours of course work (if an undergraduate or law student) or for no more than 6 hours of course work (if a graduate student). During any intensive summer session a parttime student may register for no more than 4 hours of course work.

Program of Studies

Degree students must secure the approval of their advisers for course selections prior to each registration. Students are expected to familiarize themselves with applicable University regulations and the dates on which they must meet various requirements.

Changes in Registration

Changes in courses and withdrawals must be made on a form available from the registrar. The form must be approved by the departmental adviser, dean, and registrar and filed with the bursar within 48 hours. Changes in courses, additions of courses, and changes from auditor to credit status will not be permitted after the end of the second week of any fall or spring session. *No changes in programs of study (including changes from credit to audit status, but excepting withdrawals) will ordinarily be permitted after the end of the fourth week of any fall or spring session.*

A charge of \$3 will be made for each transfer from one course or section to another and for a change in status (from auditor to credit or from credit to auditor) but not for addition or withdrawal of courses not involving such transfers.

Discontinuance of attendance at classes or notice to the instructor does not constitute withdrawal. A student who files withdrawal papers will be given a W for courses from which he withdraws. A student who ceases to attend classes but does not file withdrawal papers will be given an X and will be required to pay in full for all courses in which he has registered.

Grading System

Grade definitions used, except at the Washington College of Law, are as follows: A (3 points), excellent; B (2 points), good; C (1 point), fair; D (0 points), poor;

F (minus point), failure; I, incomplete; W, official withdrawal; X, unofficial withdrawal. Grade definitions used in the Washington College of Law follow: A, exceptional performance; B, superior performance; C, competent performance; D, marginal performance; F, failure.

A student's academic average is measured by dividing the number of quality points earned by the number of credit hours of work undertaken.

A grade of incomplete (I) will be accepted by the registrar only if accompanied by a statement from the instructor indicating what must be done by the student to complete the work of the course. Incomplete grades must be removed by April 1 (for the fall session), October 1 (for the spring session), or November 1 (for the summer session). Students who do not remove an incomplete grade in any course prior to these dates will automatically receive a permanent grade of F or X for that course, at the discretion of the instructor.

Absences

Undergraduate students and all veteran students enrolled at government expense who have been absent from more than one-quarter of the scheduled meetings of any class without satisfactory excuse may not take the final examination or receive credit in that course. A veteran student absent from more than one-quarter of the scheduled meetings or for two consecutive weeks for reasons not satisfactory to the dean will be dropped from the rolls of the University and reported to the Veterans Administration for termination of his educational benefits. Veteran students enrolled under public laws providing educational benefits must submit reports certifying attendance at regular intervals. Information concerning dates on which reports are due and forms to be used are available from the registrar. *Veterans who fail to submit these reports on time will be reported as absent to the Veterans Administration and dropped from classes.*

Regulations Subject to Change

The University reserves the right to change any of the regulations set forth in this or other published materials, or to cancel or change the course offerings and schedules given in this announcement at any time without notice.



Proposed Sibley Memorial Hospital

Clendenen Hall . . . Theatre and Gymnasium





Hamilton House . . . Freshman Women's Dormitory



Eagle's Nest . . . Mary Graydon Hall



Bridge Across the Grotto

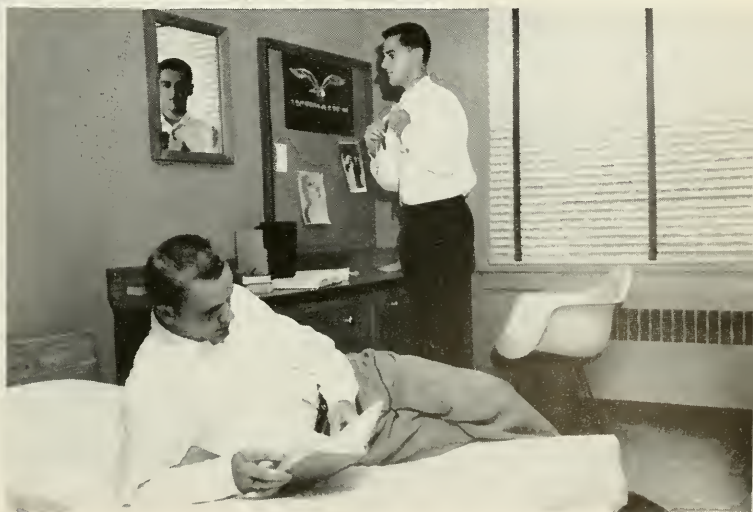


Students in Hamilton House



Great Hall . . .
Mary Graydon
Dormitory

Roper Hall . . .
Men's Dormitory





Lounge in Clark Hall . .
Men's Dormitory



Faculty and
Students in
Dining Room



Songfest in Great Hall

Graduation Requirements

The paragraphs below summarize general requirements for degrees at The American University. Departmental requirements which must be met by undergraduate and graduate students are described on pages 49-138, preceding the list of course offerings of each department. Requirements described here are minimum. Students interested in degree programs should consult their departmental advisers or deans for information concerning variations that may be applicable in their cases.

Undergraduate College and School of Business Administration

Programs of Study

The Undergraduate College offers two-year programs leading to the degrees of Associate in Arts and Associate in Public Administration; and four-year programs leading to the degrees of Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Public Administration.

The School of Business Administration offers two-year undergraduate programs leading to the degree of Associate in Business Administration and four-year undergraduate programs leading to the degree of Bachelor of Science in Business Administration.

Undergraduate students in both the College and the School may earn the associate degree upon the completion of 63 hours of course work and the bachelor's degree upon the completion of 126 hours of course work. For all undergraduate degrees a cumulative average of at least C (including a grade of not less than C in all major courses) is required and the last 30 hours of work counted toward any undergraduate degree must be completed in residence.

Undergraduate Curriculum

All undergraduate students complete a specified number of hours of work in the humanities, the natural sciences, and the social sciences, which may be taken in any sequence and which are designed to further their general education. The two-year associate program is completed by selecting additional courses in the student's field of special or vocational interest. The four-year bachelor's program requires that each student complete a well-balanced series of advanced courses in his major field of study. Elective courses to complete the total of 63 or 126 hours required for associate and bachelor's degrees provide the opportunity to supplement and round out educational experiences of both the two-year and the four-year degree candidate. These requirements are summarized in the table below.

UNIVERSITY GENERAL EDUCATION REQUIREMENTS

The University requirements, which are uniform for all students, represent a common core of general education courses totalling 38-43 hours designed to introduce undergraduates to the important ideas and traditions that make up the cultural heritage of western civilization and to provide them

with the knowledge and skills needed by the educated citizen to understand the problems of the age in which he lives and for the solving of which he will have a responsibility. These requirements are divided into basic studies and general studies.

Basic Studies 12-16 hours

23.100 and 23.101 English Composition¹ and ² (6), 29.100 and 29.101 Backgrounds of American Democracy¹ and ² (6). 49.101-104 Required Physical Education (4) [not required of parttime students].

The basic studies portion of the University requirements may be waived by the successful completion of examinations taken on entering the University and students who pass the examinations may take other courses of interest to them. Fulltime undergraduate students beginning their college work in the 1955-1956 Fall session complete 4 rather than 3 hours in physical education, including a course in personal health.

General Studies 26-27 hours

HUMANITIES—6 hours in *one* of the following fields and 3 hours in *one* other: art, literature, music, philosophy, religion.

NATURAL SCIENCES AND MATHEMATICS—8 hours in one laboratory science or 9 hours in non-laboratory science courses, including not more than 3 hours in elementary mathematics if desired.

SOCIAL SCIENCES—9 hours in introductory courses in three of the following fields: American government, anthropology, economics, international relations, psychology, sociology.

DEPARTMENTAL MAJOR REQUIREMENTS

Each department of instruction has established general and specific requirements which must be met by majors who are candidates for the two-year associate degree and the four-year bachelor's degree. While requirements in various departments and for individual degrees vary, they follow the general pattern outlined below.

Two-year Associate Degrees 12-24 hours

Candidates for the Associate in Arts must complete a minimum of 12 hours in their major field and candidates for the Associate in Business Administration and the Associate in Public Administration must complete a minimum of 24 hours in their major field and in fields closely related to their major. The purpose of this requirement is to give the student a reasonable familiarity with the field of knowledge in which he is most interested and to equip him with a background of information on the basis of which he can improve his usefulness in his chosen work or lay a foundation for further study.

Four-year Bachelor's Degrees 36-78 hours

Candidates for four-year degrees must complete a minimum of 24-42 hours in advanced courses in their major fields, a minimum of 12-21 hours in courses closely related to their major fields but not offered by the major department, and up to 15 hours in tool courses (accounting, languages, mathematics, statistics, or similar subjects) in programs where ability to use a tool of research is essential to the study of the major subject. The purpose of these requirements is to give the student a sound understanding of the principles and applications of the area of knowledge in which he is chiefly interested and to prepare him for employment or for advanced graduate or professional study that will utilize his training.

ELECTIVES

In addition to the above requirements each student enrolls in additional courses of his choice to complete the total of 63 hours necessary for an associate degree or of 126 hours necessary for a bachelor's degree. The number of elective courses that may be taken varies in different degree programs and may be somewhat reduced in the case of students whose background and preparation make necessary additional hours in the major field. In the selection of his electives the student is given an opportunity to broaden or extend his acquaintance with subjects in which he has a cultural or avocational interest.

All degree requirements of the University and of the various departments represent minimum standards. Additional work may be imposed by the dean or department chairman in individual cases. No student should expect to receive a degree simply because he has completed satisfactorily the necessary total number of hours or courses. All students should consult their academic advisers regularly for advice and guidance in the planning of a program that will enable them to achieve their degree objectives.

Major Fields of Study

The information concerning degree programs preceding the lists of courses offered by each department in this catalog indicates the subjects in which candidates for associate or bachelor's degrees may major.

The following tabulation summarizes the fields of study from which candidates for the various four-year bachelor's degrees in the Undergraduate College may choose their majors.

<i>Degree</i>	<i>Major fields of study</i>
Bachelor of Arts	Art (art history, painting, sculpture); Communication media; Economics; Elementary education; English; French; German; Government; History; International relations and organization; Journalism; Mathematics; Music; Nursing education; Philosophy; Public relations; Religion; Religious education; Spanish; Sociology; Statistics; TV-Radio.
Bachelor of Science	Biology; Chemistry; Distributed sciences; Geology; Physics.
Bachelor of Science in Public Administration	History of administration; Organization and management; Police administration; Public budgetary administration; Public law; Public personnel administration; Public relations in administration; Record and archives administration.

For information concerning programs in physical education and secondary education, which may be used to meet the part of the requirements for majors in other departments, see pages 69 and 112.

Candidates for a four-year bachelor's degree in the School of Business Administration may choose their majors from those listed below.

<i>Degree</i>	<i>Major fields of study</i>
Bachelor of Science in Business Administration	Accounting; Business Administration; Finance; Marketing; Production; Real estate; Statistics.

Among the career programs for which The American University provides plans of study are those in the following areas:

Accounting, advertising, anthropology, art and art history, biology, business management, chemistry, civil service, communication, diplomatic service, economics, education, editorial work, foreign service, geology, home management, international affairs, journalism, languages, law, mathematics, medical technology, missionary service, music, museum work, nursing education, painting, philosophy, pre-dentistry, pre-engineering, pre-legal, pre-medical, pre-ministerial, pre-nursing, pre-pharmacy, physical education, physics, psychology, public administration, public health service, public relations, public service, real estate, religious education, sculpture, secretarial techniques, sociology, speech, statistics, teaching at the elementary, secondary, and college and university level, television and radio, tests and measurements, theater, transportation, writing.

Each student should consult his adviser for specific advice concerning his vocational goals and the major course of study he should choose to prepare him best for his preferred life work.

Academic Average

An undergraduate student will be placed on probation for unsatisfactory scholarship if he fails to achieve a cumulative average of 1.00 (C) during his first 30 hours of course work. An undergraduate student will be dismissed if he fails to achieve a cumulative average of 1.00 upon the completion of 63 hours of course work, if he fails to achieve a cumulative average of 1.00 upon the completion of 93 hours of course work, or if he fails to achieve a D average in any session (in the case of parttime students a session will be interpreted in terms of 15 hours of consecutive course work).

Graduation honors are awarded on the basis of the following cumulative averages: highest average in class—highest distinction; above 2.75 average—high distinction; 2.50-2.74 average—distinction. No grades earned in another institution are used in computing grade averages and a student must complete at least 60 hours of work at The American University to be eligible for graduation honors.

Undergraduate students are classified annually by the registrar, who determines their class on the basis of work completed in accordance with the following formula: freshman—0-29 hours completed; sophomore—30-62 hours completed; junior—63-89 hours completed; senior—90-126 hours completed.

Pre-Engineering Program

Although it is recommended that the student interested in a career in engineering complete a bachelor's degree in one of the sciences or in distributed science before entering an engineering school, The American University offers a two-year pre-engineering course in cooperation with Virginia Polytechnic Institute. At the conclusion of this course a student may transfer to that institution receiving full credit for the work he has completed. A student may also pursue pre-engineering studies to meet the requirements of other schools of engineering to which he may wish to transfer.

Combined Undergraduate-Law Degree Program

Students in the Undergraduate College or School of Business Administration may enroll in the combined degree program leading to an undergraduate degree and a law degree after the completion of six years of approved study on a fulltime basis or the equivalent in parttime study.

A student in the combined degree program must complete a minimum of 96 hours of the academic work required for the undergraduate degree (the last 30 hours of which must be taken at The American University) and must meet the admission requirements established by the Washington College of Law. Ordinarily the first year of fulltime work (or the equivalent in parttime study) in law will be counted toward the requirements in the undergraduate major, although in certain programs the law credits must at least in part be taken as electives. A student must in any case complete at least 18 hours of work in some one field of study during his undergraduate years. Under the combined degree program students pay the usual undergraduate tuition during their first year of law school and receive the undergraduate degree at the end of that year if they have met all requirements for the undergraduate degree and have maintained a satisfactory average in their law studies. A student interested in the combined degree program should consult his dean early in his undergraduate program in order to make sure that his preparation and course of study will satisfy the requirements for both the undergraduate and the law degree.

Washington College of Law

The Washington College of Law offers programs leading to the degree of Bachelor of Laws upon the completion of 80 hours of approved course work with an average of at least C. Candidates for the degree of Bachelor of Laws must complete at least the last 20 hours of law study in The American University, they must complete at least six sessions of study in law, and they must meet these requirements during a period of not less than two nor more than six calendar years.

Degree requirements are normally met in 6 sessions (3 years) of fulltime study or 8 sessions (4 years) of parttime study. Fulltime students normally carry 12 to 14 credit hours; parttime students 10. Variation from the normal requires special permission, but in no case will a student carry less than 6 hours in any regular session. In addition to the regular fall and spring sessions, the Washington College of Law offers a ten-week evening summer session. The courses, chiefly in the elective curriculum, are coordinated with the regular sessions, enabling parttime students to complete their course of study in six regular and three summer sessions. This method of study shortens the normal four-year course for parttime students to three years.

A student enrolled in the Washington College of Law will be given no credit for work thereafter completed in any other educational institution or in any other division of The American University unless specific written permission has been obtained in advance. Permission will be granted only in exceptional cases.

Students enrolled in a combined degree program leading to a bachelor's degree and a law degree may apply credits earned during the first year of law study toward the major or electives requirements for the undergraduate degree.

At the Washington College of Law both Trial and Appellate Moot Court work are required parts of the curriculum. The system of moot court programs is designed to give students actual practice in the use of law books, in the preparation

of briefs and cases for trial and in legal argument growing out of the actual trying of the case in moot court sessions before a member of the faculty acting as a judge and students in the University acting as jurors. The Trial Moot Court is a credit course in the final year.

Graduate School

Programs of Study

The Graduate School offers programs leading to the degree of Master of Arts in Art, Communication, Education, English, Guidance and Counseling, and Music; to the degree of Master of Science in Chemistry; and to the degrees of Master of Arts and Doctor of Philosophy in Economics, Economic History, Government, History, International Relations and Organization, Mathematics, Public Administration, Sociology, and Statistics. The School plans to introduce programs leading to the degree of Master of Science in Biology and Doctor of Education during the year 1956-1957.

The School of Business Administration offers programs leading to the degree of Master of Business Administration, which is awarded by the Graduate School. The Graduate Council has approved a proposal for the establishment of programs leading to the degree of Doctor of Philosophy in the field of business administration and it is hoped that it will be possible to introduce this degree beginning in the 1956-1957 Fall session.

In addition to degree programs organized largely within the subject-matter fields of a specific department, the University provides sequences of courses in Russian and East European and Latin-American studies. These area studies are organized and administered on an interdepartmental basis.

Preceding departmental course listings in this catalog are summaries of the general requirements for graduate degrees in effect in departments which offer graduate instruction. These statements represent typical requirements. Variations may be desirable to meet the needs of individual students and these variations will be worked out by the department chairman and the student concerned within the framework of the regulations governing graduate degrees established by the University.

The general requirements for advanced degrees are described in the paragraphs that follow. A student interested in working toward a graduate degree should consult his department chairman as soon as possible after admission to graduate standing to plan his course of studies and to ascertain any special requirements of the University or of his department which he must satisfy in order to qualify for the degree of his choice.

Prerequisites for Graduate Degrees

A candidate for admission to an advanced degree program must have completed at least 24 hours of approved course work in the field in which he wishes to take his graduate degree or in a closely related field and he must have attained a grade average of at least B in courses in that field. A student without the requisite background or grade average must complete such work as is necessary to demonstrate that he has adequate preparation for successful graduate work in his field. No credit for a graduate degree will be given for course work completed for this purpose. Individual departments may require additional background preparation as a prerequisite for some degree programs.

A student enrolled in a graduate degree program must maintain a cumulative grade average in all graduate work at The American University of at least B (for a master's degree) or of better than B (for a doctor's degree). A student whose cumulative grade average in graduate work attempted at The American University falls below a B for two sessions may be denied the right to re-register for courses in the University for a period of one calendar year. Application for re-admission at the end of that time must be made to the Graduate Council. No graduate credit is given for any course completed with a grade of less than C.

Approved graduate credits earned at another accredited institution may be applied toward meeting not more than 6 of the course hour requirements for a master's degree or not more than 42 of the course hour requirements for a doctor's degree. To be applied toward course hour requirements for an advanced degree at The American University graduate credits from another institution must have been completed with a grade of at least B and they must in the opinion of the department chairman be appropriate to the student's objectives and program at this University.

Admission to Candidacy for an Advanced Degree

Admission to the Graduate School or to the School of Business Administration does not constitute admission to candidacy for an advanced degree. A student admitted to full graduate standing may apply for admission to candidacy for a graduate degree if recommended by his department chairman after completing 12 hours of approved graduate work in residence at The American University.

Admission to candidacy for a master's degree remains valid for a period of 5 years and for a doctor's degree for a period of 7 years provided the candidate maintains the necessary cumulative grade average. Re-admission to candidacy after the expiration of these periods or if the required grade average is not maintained may be granted in certain cases upon application to the Graduate Council.

Master's Degrees

A candidate for a master's degree must complete a minimum of 30 hours of approved graduate work, at least 24 of which must be earned in residence at The American University and up to 6 of which may be in a thesis seminar or in course work approved in lieu of the thesis seminar. He must pass written comprehensive examinations in fields approved by the department chairman at the time of application for candidacy for the degree, submit a thesis, case study, or approved substitute, and meet all other requirements for the degree that may be established by his department.

Doctor's Degrees

A candidate for a doctor's degree must complete a minimum of 72 hours of approved graduate work, at least 30 of which must be earned in residence at The American University and at least 50 of which must be in courses related to the fields examined in the comprehensive examinations. He must pass written comprehensive examinations in five fields approved by the department chairman at the time of application for candidacy for the degree and must receive a grade of distinction in at least one of these fields. He must pass proficiency examinations in two tools of research (accounting, languages, mathematics, statistics, or approved substitutes) before his thesis topic is approved. He must present a thesis demonstrating distinctive competence in research and the ability to present new knowledge effectively and pass an oral examination on the thesis and on any portions of his fields of study related to his thesis. No academic credit is allowed for the doctoral thesis.

Comprehensive Examinations

Comprehensive examinations for advanced degrees are administered twice a year, once in the fall and once in the spring. Candidates for graduate degrees may apply for their comprehensive examinations after the completion in residence at The American University of at least 24 hours of approved graduate work for a master's degree or at least 30 hours for a doctor's degree, provided they have maintained the necessary cumulative grade average. Well-qualified candidates may be permitted to take the comprehensive examinations during a session in which they will complete the necessary hours of course work.

Each application for comprehensive examinations must be accompanied by the appropriate fee (\$15 for master's examinations, \$25 for doctor's examinations), which is not refundable. Comprehensive examinations must be taken as a unit on the days scheduled for the purpose by the dean. A student who has failed his comprehensive examinations may apply to the Graduate Council for permission to attempt the examinations again. Students allowed to take the examinations a second time must do so in their entirety except in the case of doctor's degree candidates who have failed in one or more fields only or who have failed to attain the necessary distinction in one field. In such cases the Graduate Council may permit the candidate to obtain new ratings to replace the original ones in one or more fields by repeating examinations in those fields. No student will be permitted to attempt the comprehensive examination for a third time under any circumstances.

Theses for Advanced Degrees

Theses must be in good form as described in an acceptable thesis manual and typed on 8½-inch by 11-inch bond paper. Master's theses or case studies must be submitted in two copies and accompanied by a 1,000-word summary (in the case of original works of art, musical compositions, or other projects approved in lieu of a thesis two clear photographic copies and a written analysis will be accepted). Doctor's theses must be submitted in four copies and accompanied by two copies of an adequate summary. Candidates for advanced degrees must pay to the University the cost of binding theses for deposit in the library. A student who does not enroll in a thesis seminar or a course approved in lieu thereof must pay for supervision of his research the sum of \$48 (for a master's degree) or \$96 (for a doctor's degree).

Proposals for master's theses or other projects are approved by the department chairman and the research is supervised by a committee of 1-3 advisers, whose approval is necessary before the project can be accepted. Proposals for doctor's theses are approved by the Graduate Council on the basis of an application and supporting papers submitted by the student. The writing of the thesis is supervised by a committee of 5 persons designated by the Council to consult with the student during his research and to conduct the oral examination on the thesis after it has been submitted and found satisfactory.

Responsibility of Students

The requirements for graduate degrees set forth in this and other publications of the University represent minimum standards. The completion of the stated requirements does not necessarily lead to the award of a degree and each student is expected to consult his department chairman at the time of admission and frequently thereafter, and to take the initiative in ascertaining special requirements that apply to his case and the dates on which he must complete various requirements established by the University or by his department.

Financial Information

The pages that follow describe charges assessed from all students of the University and the types of financial assistance available through scholarships and fellowships, loans, and part-time employment. Financial regulations are subject to change at the beginning of any session by action of the Board of Trustees of the University.

Tuition

Fulltime undergraduate students (12-18 hours)	\$300 a session
Fulltime law students (12-15 hours)	\$225 a session
All other students	\$16 a credit hour
Graduate study fee (for fulltime and parttime students who have completed course work and thesis seminar requirements)	\$16 a session

General Fees (not refundable)

APPLICABLE TO ALL STUDENTS

Late registration (effective opening day of classes in any session)	\$3
Transfers from course to course and changes in status	\$3
Reinstatement fee	\$5
Student activities fees (included in tuition of fulltime, undergraduates, optional for others who wish to participate in the University's extra-curricular athletic and social activities)	\$15 a session, Fall and Spring
Health fee (included in tuition of fulltime undergraduates, required of all other students residing in University facilities)	\$10 a session, Fall and Spring
Deferred or special examinations	\$5 each examination
Examinations for validation of credit	\$5 a credit hour
Official transcripts (after first)	\$1 each
Certifications without seal (after first)	.25 cents each

APPLICABLE TO UNDERGRADUATE STUDENTS

Application fee (with applications for fulltime admission)	\$5
Admission testing	\$2 each test

APPLICABLE TO LAW STUDENTS

Application fee (with all applications for admission)	\$5
General fee	\$6 a session

APPLICABLE TO GRADUATE STUDENTS

Application fee (with applications for fulltime admission)	\$5
Comprehensive examinations (with each application) — fall and spring only	
For master's degree	\$15
For doctor's degree	\$25
Supervision of theses (if no thesis seminar is completed)	
For master's degree	\$48
For doctor's degree	\$96
Binding theses or case studies for deposit in library	\$6-\$24

Graduation Fees

Undergraduate students	\$10
Law students	\$20
Graduate students	\$25

Course and Laboratory Fees

Special fees are charged for certain courses involving the use of laboratory, studio, or other equipment or facilities. The amount of the fee is indicated in the published description of the course to which it applies. Course and laboratory fees are payable on registration. *They are in addition to the normal tuition charges for each course.*

A student responsible for breakage or damage of equipment in any class must pay for the losses incurred before he will be admitted to the final examination.

Residence Hall Charges, Fall and Spring Sessions

	Rate per session		
	Single	Double	Triple
WOMEN			
Mary Graydon	\$175	\$130	\$115
Hamilton	\$175	\$130	
MEN			
Clark and Roper	\$175	\$130	
McCabe		\$100	\$90

Applications for dormitory rooms should be addressed to the Office of the Assistant to the President, Hurst Hall, and accompanied by a deposit of \$25. This deposit is not refundable unless reservation is cancelled at least eight weeks before the opening of the session for which it is made. It will not be credited to a student's room bill at the time of registration but will be held over from session to session as long as the student continues in residence. Within 30 days after graduation or withdrawal from the University the deposit will be refunded to the student, less any unpaid obligations.

Students may not remain in University dormitories during periods when classes are not meeting without the permission of the Dean of Students. Charge for occupancy during these periods is \$2 per night. The University Bookstore pro-

vides a linen service, for which there is a charge of \$10 per session. A deposit of \$5 is required which is refundable upon the return of the linen.

Dining Room Charges, Fall and Spring Sessions

MEAL TICKET (breakfast, lunch, dinner)

for 5 days a week.....	\$175
for 7 days a week (excluding Sunday evening meal)	\$230

Meal tickets are effective at breakfast on the first day of classes in each session and end with dinner on the last day of examinations of the session. They do not include meals during the Thanksgiving, Christmas, and Spring vacations.

The University can assume no responsibility for students requiring special diets which differ from the menus served in the dining room.

Payment of Charges

CHARGES PAYABLE IN ADVANCE—Charges are payable before registration is completed. No student will be permitted to register from session to session or receive credit for work completed or a degree unless charges have been paid in full.

DEFERRED PAYMENT PLANS, FALL AND SPRING SESSIONS—The University provides a deferred payment plan for students who register for more than four credit hours. This plan requires the payment on registration of 40% of the tuition, room and board charges, and all course or other fees. 40% of the charges must be paid by the end of the fourth week of the session. The remaining 20% of the charges must be paid by the end of the eighth week. The cost of this plan is \$3, payable on registration and not refundable.

The University also participates in Tuition Plan, Inc. which permits fulltime students only to pay tuition, room and board charges in monthly installments during fall and spring sessions. This plan requires the payment on registration of one-third of the total amount due the University. The remaining two-thirds is paid in three equal monthly installments. The charge established by Tuition Plan, Inc., for this service is 4% of the amount deferred for the session.

REFUNDS, FALL AND SPRING SESSIONS—Refunds will be allowed only after the execution of withdrawal forms provided for the purpose by the Registrar and the amount to be refunded will be calculated as of the date indicated by the Bursar on signing.

A student permitted to withdraw from classes during the fall and spring sessions is entitled to a refund of charges for tuition in accordance with the following schedule:

Withdrawal before the opening date of the session.....	All except \$5
Withdrawal during the 1st and 2nd weeks.....	80%
Withdrawal during the 3rd and 4th weeks.....	60%
Withdrawal during the 5th week.....	40%
Withdrawal during the 6th week.....	20%
Withdrawal after the 6th week.....	No refund

Refunds for meals in cases of withdrawal will be pro-rated on a weekly basis. Charges for dormitory rooms are not refundable. Fulltime undergraduate students permitted to withdraw are not entitled to refund of any part of the student activities fee of \$15 a session that is included in the fulltime undergraduate tuition.

SUMMER SESSION PAYMENTS—All students during summer sessions pay tuition at the rate of \$16 a credit hour (except in certain institutes and other special courses) and other charges as indicated in the annual summer session announcement. No deferred payment plan is in effect during summer sessions. Students

who withdraw from classes prior to the opening day of any summer session will receive a refund of all tuition paid except \$5. Students who withdraw from classes on or before the eighth calendar day of any summer session will receive a refund of 60% of tuition paid (not including course and laboratory fees). The same policy will apply to summer institutes of more than four weeks' duration. No other refunds will be made during summer sessions.

STUDENT ACCIDENT INSURANCE—The University makes available a voluntary Group Student Accident Insurance plan providing benefits up to \$500 for expenses incurred as a result of an injury. The premium for full coverage from the first day of the fall session to the last day of the spring session is \$5. For detailed information consult the nurse in the infirmary.

PAYMENTS BY VETERANS—Veteran students enrolled in accordance with public laws providing educational benefits are subject to all rules and regulations of the University and they must pay any charges incurred that are not paid by the Veterans Administration. Veteran students enrolled under Public Laws 16 or 346 may not draw books or supplies to be charged to the Veterans Administration after the end of the ninth week of classes in any fall or spring session.

CHARGES SUBJECT TO CHANGE—All charges listed in this announcement are subject to change at the beginning of any session.

Scholarships and Loans

Scholarships

Each year the University offers a limited number of scholarships to fulltime students selected on a competitive basis. In general awards are made to students whose records give promise of distinguished academic performance, good citizenship, and useful living.

Scholarships and fellowships are provided by endowments, gifts, and annual grants from the following sources:

Walter and Sarah Alexander Fund

S. Emma Baer Memorial Fund

Lucius C. Bennett Scholarship

Louis C. and Lucy J. Brown

Memorial Fund

Mary Louise Brown Guild Scholarship

Collier Alumni Scholarship

Grace Markel Daish Scholarship

Charles H. and Ira Dean

Memorial Fund

Nancy Barnes-Devon Scholarship Fund

Mary M. Dunham Scholarship Fund

Giant Food Department Stores

Scholarships

General Board of Education

of The Methodist Church

Mary Graydon Scholarships

Arabella Griffin Scholarship

Annie G. Hall Fund

G. E. Hammond Fund

Hutchins Alumni Scholarship

Hugh A. and Maggie Thompson

Legg Scholarship

Catherine Letts Scholarship Fund

Minnie Letts Scholarship Fund

Belva A. Lockwood Memorial
Scholarship

John H. and Nannie C. Lucas
Scholarship Fund

Massey Fund Fellowships

Perle Mesta Scholarships

Eugene and Agnes E. Meyer

Foundation Scholarships

Missionary Emergency Fund Fellowships

Charles A. Norwood Memorial

Scholarship Fund

Dorothy T. Opdyke Memorial

Scholarship Fund

Carrie S. Oves Scholarship Fund

Panhellenic Association of Washington
Scholarship

William W. and Eliza S. Ramsay
Memorial Fund

George W. Townsend Memorial
Scholarship Fund

Women's Accounting Society
Scholarship

Women's Advertising Club Scholarship

The American University Women's
Guild Scholarship

Zonta Club of Washington Scholarship

Applications for scholarships and fellowships are made on a form available from the Office of the Assistant to the President. They must be accompanied by:

An application for admission to the University.

A certificate of medical history and examination.

Transcripts of academic record as required under admission provisions.

A personal letter stating the applicant's academic objectives.

Names and addresses of three persons, not related to the applicant, who are familiar with his academic background and personal character.

Other documents or evidence which support the applicant's statements.

Applications with all supporting admission documents must be presented to the University not later than March 1 preceding the fall session for which the grant is requested.

Student Loans

University loan funds assist fulltime students in meeting financial obligations and emergency needs. Loans are not made to any student during the first session of attendance. The sums which may be borrowed are defined by the terms of the trust which establishes the fund. Each borrower signs a promissory note, which must be endorsed by some financially responsible person. Applications for loans are made to the dean of the Undergraduate College, the School of Business Administration, the Washington College of Law, or the Graduate School, who will forward them to the University Committee on Student Loans.

Placement Service

The University maintains a placement service to assist students in obtaining parttime jobs to help them in earning some of their expenses and to assist graduates in obtaining permanent positions following graduation.

Courses of Study

General Information

The following pages describe the offerings of all departments of instruction, listed by the colleges and schools of the university in which they are offered. Arabic numbers in parentheses following descriptive course titles indicate semester credit hours earned by completion of each course at the rate of one credit hour for one 50-minute class session or two clock hours of laboratory work a week for 16 weeks or the equivalent.

After each course description is indicated the session (Summer, Fall, Spring) during which it is expected the course will be offered. Some variations in this plan may be necessary. Revised schedules indicating the hour, location, and instructor for each course are published prior to the opening of each session. Students should consult these revised session announcements for registration purposes. The University reserves the right to cancel or change any course listings in this catalog or in any other published announcements at any time.

Course Numbering System

Each course is identified by a decimal number.

The first series of one or two numbers (3-69) indicates the area in which the course is offered.

The second series of three numbers identifies the level of each course. Courses numbered .001-.099 carry no credit. Courses numbered .100-.499 are for undergraduate students. Courses numbered .500-.599 are for graduate and advanced undergraduate students. Courses numbered .600-.799 are for graduate students only.

Reading and Research Courses

In addition to the courses listed in the following pages opportunity is provided for undergraduate and graduate students to register for specialized reading and research courses for which they are qualified and which are appropriate to their programs.

Undergraduate reading and research courses—An undergraduate student who wishes to enroll in these courses must be recommended by his major department, must have pursued background courses which are essential to successful study of the proposed project, and must have completed 63 semester hours of college work, at least 6 of them in this University, with a cumulative academic index of 1.5 or better. Properly qualified undergraduate students may earn a maximum of 12 credit hours by independent study and may not register for more than two independent study courses during any session. Registrations will be accepted only during regular registration periods. Each course must be completed within a single session.

Graduate reading and research courses—A graduate student recommended by his department is eligible to register for a reading course after the completion of at least 6 hours of approved graduate work in residence with an average grade of at least B, or for an independent research project (not for thesis purposes) after the completion of at least 12 hours of approved graduate work in residence with an average grade of at least B. No graduate student may apply more than 6 hours of work in a reading course, independent research course, in-service project,

or institute, nor more than 9 hours in any combination of these courses, toward meeting the course hour requirements for the master's degree. No more than 9 hours in one of these types of courses or more than 18 hours in any combination of them may be applied toward meeting the course hour requirements for the doctor's degree. Graduate reading courses must be completed in no more than two consecutive sessions of work and research projects must be completed within one calendar year after registration.

Registration for reading and research courses—Students permitted to enroll in the independent study courses listed below should enter on their registration cards the indicator number (3-69) of the department which will supervise their work, followed by the number of the particular course to which they are being admitted, as listed below.

Undergraduate Courses

- .390 Individual Study Project ¹ (3)
- .391 Individual Study Project ² (3)
- .490 Individual Research Project ¹ (3)
- .491 Individual Research ² (3)

Graduate Courses

- .099 Graduate Study (No credit). For graduate students who have completed course work and thesis seminar for an advanced degree and who wish to continue on the rolls of the University to complete their thesis, case studies, or other requirements.
- .590 Reading Project (3)
- .690 Research Project (3-6)

Undergraduate College

Graduate School

School of Social Sciences and Public Affairs (*Evening Division*)

HAROLD E. DAVIS, B.A., M.A., Ph.D., Dean of the Undergraduate College

ERNST POSNER, Ph.D., Dean of the Graduate School

RICHARD M. BRAY, B.A., M.A., Dean of the School of Social Sciences and
Public Affairs (Evening Division)

The Undergraduate College offers programs leading to the degrees of Associate in Arts, Associate in Public Administration, Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Public Administration. The Graduate School offers programs leading to the degrees of Master of Arts, Master of Science, and Doctor of Philosophy. The School of Social Sciences and Public Affairs offers evening and Saturday programs through which parttime students may earn any of these degrees. *For details concerning admission and graduation requirements, see pages 27-40.*

In view of the fact that the chairmen of the departments of the University direct the work at both the undergraduate and graduate levels, as well as the work offered through the Evening Division of the University, all of these course offerings are listed in this section. They are divided departmentally into undergraduate courses and graduate courses. For undergraduate and graduate courses offered by the School of Business Administration, see pages 127-134.

Applications are accepted for admission during any session (Summer, Fall, Spring). Inquiries concerning admission to the University should be addressed to the Office of the Assistant to the President, Massachusetts and Nebraska Avenues, N.W., Washington 16, D.C.

Art

Associate Professors: SARAH BAKER; ROBERT F. GATES (Chairman); ANDREW S. KECK. *Assistant Professor:* BEN L. SUMMERFORD. *Lecturers:* JAMES R. CAUDLE; SHERLY GOODMAN; ELIZABETH HOLT.

Degree Programs

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Arts.

University Requirements 38-43 hours

Students majoring in painting or sculpture or in art history are advised to complete 7.200 and 7.201 Survey of Art ¹ and ² (6) as a part of their University requirements.

Departmental Requirements—

ASSOCIATE IN ARTS

Major courses 12 hours

BACHELOR OF ARTS

Major courses 30 hours

Students majoring in painting or sculpture, or both, complete 30 hours of studio art courses; students preparing to teach art complete 24 hours of studio art courses and 5.370 and 5.371 Laboratory Workshop for Art Teachers ¹ and ² (6). Students majoring in art history complete 30 hours of art history including 7.200 and 7.201 Survey of Art ¹ and ² (6).

Related courses 12-27 hours

Students are advised to select courses in the humanities and related fields. Students planning to teach art in secondary schools select the following courses in education: 21.200 Introduction to Education (3), 21.310 History of Education in American Culture (3), 21.320 Psychology of Education (3), 21.340 The Secondary School Curriculum (4), 21.342 and 21.343 Methods of Teaching in Secondary Schools ¹ and ² (6), 21.440 and 21.441 Principles of Education (6), and at least 2 hours in practice teaching courses.

Tool courses 0-6 hours

French, German, or Spanish recommended for majors in art. 2-3 hours in creative art or sculpture recommended for majors in art history, and those interested in careers in museum work should also acquire a reading knowledge of French or German.

Electives—

Associate in Arts to complete 63 hours

Bachelor of Arts to complete 126 hours

GRADUATE DEGREE—Master of Arts.

Course Requirements: Minimum of 30 hours of approved graduate work, 6 of which may be in 5.692 Graduate Art Laboratory (6) or 5.799 Thesis Seminar-Art (3-6).

Written Comprehensive Examinations: 3, including one in a phase of art history; one in the media and processes of painting; and one in esthetics or in a field in one of the humanities or social sciences.

Other Requirements: Thesis or execution of an original work or works of art in lieu of thesis.

Undergraduate Courses

- 5.120-220-320-420 CREATIVE PAINTING¹ (2-5)** Four-year sequence of courses progressing from basic and simplified theories of color, composition, design, structural drawing, figure, landscape, and still-life to independent student work planned in conference with instructors. Student registers for 5.120 in first year, 5.220 in second year, 5.320 in third year, and 5.420 in fourth year. *Prerequisite, permission of department chairman.* Fee, all students, \$5 a credit hour. SUMMER. FALL.
- 5.121-221-321-421 CREATIVE PAINTING² (2-5)** Continuation of 5.120-420. Fee, all students, \$5 a credit hour. SUMMER. SPRING.
- 5.130-230-330-430 OIL PAINTING¹ (1)** Four-year sequence of courses emphasizing structural designs and color patterns in oil painting. Primarily for students who do not wish to prepare for careers in art. *Prerequisite, permission of department chairman.* Fee, all students, \$5 a credit hour. FALL.
- 5.131-231-331-431 OIL PAINTING² (1)** Continuation of 5.130-430. Fee, all students, \$5 a credit hour. SPRING.
- 5.140-240-340-440 CREATIVE SCULPTURE¹ (2-5)** Four-year sequence of courses progressing from basic techniques, problems, and principles of sculpture to independent work in stone, plaster, wood or metal. *Prerequisite, permission of department chairman.* Fee, all students, \$5 a credit hour. FALL.
- 5.141-241-341-441 CREATIVE SCULPTURE² (2-5)** Continuation of 5.141-441. Fee, all students, \$5 a credit hour. SPRING.
- 5.160-260-360-460 SKETCH CLASS¹ (1)** Four-year sequence of courses with emphasis on learning to see and record rapidly what is seen, drawing the human figure, expressing movement, form, and structure. *Prerequisite, permission of department chairman.* Fee, all students, \$5 a credit hour. FALL.
- 5.161-261-361-461 SKETCH CLASS² (1)** Continuation of 5.160-460. Fee, all students, \$5 a credit hour. SPRING.
- 5.204 ART IN EVERYDAY LIVING¹ (3)** Appreciation of the arts in terms of their application to everyday living. Approached through analysis and practical application of basic principles of design and good taste. FALL.
- 5.205 ART IN EVERYDAY LIVING² (3)** Continuation of 5.204. Second session is complete in itself and 5.204 is not required as a prerequisite. SPRING.
- 7.200 SURVEY OF ART¹: ANCIENT & MEDIEVAL (3)** Illustrated historical introduction to architecture, sculpture, painting with art presented as an objectification and record of man's major beliefs and ideas. Field trips in Washington. FALL.
- 7.201 SURVEY OF ART²: RENAISSANCE & MODERN (3)** Illustrated historical introduction to architecture, sculpture, painting in the western world between 1500 and 1950. Attention to selected original works in Washington. SPRING.
- 5.370 LABORATORY WORKSHOP FOR ART TEACHERS¹ (3)** Workshop crafts course. This course, together with 5.371 in the spring, is offered to meet part of the requirements of the Department of Education in the District of Columbia for the junior high school teacher. *Prerequisite, 12 hours of painting or permission of instructor.* Fee, all students, \$15. FALL.
- 5.371 LABORATORY WORKSHOP FOR ART TEACHERS² (3)** Continuation of 5.370. Fee, all students, \$15. SPRING.
- 7.300 ANCIENT ART (3)** Ancient Mediterranean civilizations studied through the language of the visual arts with emphasis on the cultural achievements of classical Greece. 1956 FALL AND ALTERNATE YEARS.
- 7.301 BYZANTINE ART (3)** Early Christian art as a prelude to Byzantine art, the finest expression of Christian dogma, art in Italy before 1400. 1957 SPRING AND ALTERNATE YEARS.
- 7.400 ROMANESQUE ART (3)** Expression of the Christian view of experience as seen in the Celtic art of Ireland and that of the Carolingian and Romanesque periods in Europe, particularly in France. 1957 FALL AND ALTERNATE YEARS.
- 7.401 GOTHIC ART (3)** The most vital expression of Christian belief as stated in European architecture and its attendant arts in Northern Europe up to 1500. 1958 SPRING AND ALTERNATE YEARS.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

- 5.533 MATERIALS & TECHNIQUES OF PAINTING (3)** Technical investigation of painting methods from Renaissance to present. Preparation of grounds, media, underpainting, glazing, emulsions for tempera. *Prerequisite, permission of instructor.* FALL.
- 5.560 GRADUATE DRAWING¹ (3)** Experiments in the creative, emotional quality of drawing. Development of a personal creative expression. *Prerequisite, permission of instructor.* Fee, all students, \$5 a credit hour. FALL.
- 5.561 GRADUATE DRAWING² (3)** Continuation of 5.560. Fee, all students, \$5 a credit hour. SPRING.

- 7.500 RENAISSANCE PAINTING (3)** Italian Renaissance and Baroque painters and El Greco, Poussin, Rembrandt, Rubens, Velasquez. Special attention to original works in Washington. FALL.
- 7.501 MODERN PAINTING (3)** Critical examination of the aims and accomplishments of painting in Europe since 1700. Special attention to original works in Washington. SPRING.
- 7.504 RENAISSANCE ARCHITECTURE (3)** Development of the abstract art of architecture in Europe from 1400 to the "revivals" about the year 1800 and comprising the Renaissance, Baroque, and Rococo movements. 1957 FALL AND ALTERNATE YEARS.
- 7.505 MODERN ARCHITECTURE (3)** Development of architecture in Europe from 1800 to the present day, ending with the International Style. 1956 SPRING AND ALTERNATE YEARS.
- 7.506 RENAISSANCE SCULPTURE (3)** Representational art of sculpture as conditioned by the currents of humanism, individualism, and absolutism in Europe between 1400 and 1800. 1956 FALL AND ALTERNATE YEARS.
- 7.507 MODERN SCULPTURE (3)** Changes in sculpture viewed against changes of taste of Europe from 1800 to the present. 1957 SPRING AND ALTERNATE YEARS.
- 7.510 ART IN THE U.S. ¹: TO 1870 (3)** Architecture, sculpture, painting from earliest colonial days to 1870, viewed against their European backgrounds. FALL.
- 7.511 ART IN THE U.S. ²: FROM 1870 (3)** Evaluation of the major art forms in this country during period characterized by its search for a new style in art. SPRING.
- 5.692 GRADUATE ART LABORATORY (6)** Student masters language by which he communicates his ideas. Various approaches and pictorial techniques studied and pursued through studio work. Offered to meet needs of individual students.
- 5.798 MASTER'S PROJECT SEMINAR (6)** Laboratory course in painting encouraging a personal vision culminating in an original work undertaken and executed independently. A critical analysis of the project is also undertaken.
- 5.799 THESIS SEMINAR IN ART (3-6)**

Biology

Adjunct Professor: O. B. HUNTER, JR. *Assistant Professor:* MARTHA C. BRADLEY.
Instructor: STANLEY L. McCAUSLAND.

Degree Programs

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Science. See page 62 for information concerning requirements for the degree of Bachelor of Science with major in distributed sciences.

University Requirements 38-43 hours

Students majoring in biology are advised to complete 9.210 General Zoology (4), 9.211 General Botany (4), 57.200 General Psychology (3), 65.200 Introduction to Sociology (3), and 65.201 Introduction to Anthropology (3), as a part of their University requirements.

Departmental Requirements—

ASSOCIATE IN ARTS

Major courses 12 hours

8 hours of this requirement may be satisfied by the completion of 9.210 General Zoology (4) and 9.211 General Botany (4) as a part of the University requirements.

Related courses 8 hours

15.110 and 15.111 General Chemistry ¹ and ² (8).

BACHELOR OF SCIENCE

Major courses 36 hours

9.210 General Zoology (4), 9.211 General Botany (4), 9.404-405 Comparative Vertebrate Anatomy ¹ and ² (6), 9.507 Genetics (3), 3-4 hours in a biology field course, and 15-16 additional hours.

Related courses 20 hours

15.110 and 15.111 General Chemistry ¹ and ² (8) and 12 additional hours.

Tool courses 6-18 hours

6 hours of mathematics are required; 12 hours of French or German are recommended.

Electives—

Associate in Arts to complete 63 hours
 Bachelor of Science to complete 126 hours

GRADUATE DEGREE—The University plans to introduce programs leading to the degree of Master of Science in biology in the year 1956-1957. For information concerning requirements consult members of the department or the graduate dean.

Undergraduate Courses

- 9.100 HUMAN BIOLOGY (3)** Nature of living organisms. Structure, development, functions of animals with special attention to man. Demonstrations. No laboratory. SUMMER. FALL. SPRING.
- 9.210 GENERAL ZOOLOGY (4)** Structure, function, development, heredity, evolution of animals. Field trips, museum assignments. 3 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. FALL.
- 9.211 GENERAL BOTANY (4)** Structure, function, development of plants. Survey of plant kingdom. Study of campus woodland; field trips. 3 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. SPRING.
- 9.301 PHYSIOLOGY (4)** Functions of the vertebrate organ systems with special reference to those of man. *Prerequisite*, 9.210. 3 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. SPRING.
- 9.306 CLINICAL LABORATORY METHODS (4)** Techniques utilized in a clinical laboratory. Course planned primarily for students planning careers in medical technology. *Prerequisite, permission of departmental chairman*. 1957 SPRING AND ALTERNATE YEARS.
- 9.310 GENERAL BACTERIOLOGY (4)** Bacteria and their relationship to human welfare. Culture methods. Principles of sterility; aseptic techniques. *Prerequisite*, 8 hours of biology; *general chemistry strongly recommended*. 2 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$10. FALL.
- 9.404 COMPARATIVE VERTEBRATE ANATOMY ¹ (3)** Classification, development of Chordates. Comparative anatomical studies of integumentary, skeletal and muscular systems of important vertebrate types. *Prerequisite*, 9.210. Recommended for students preparing for medical or dental schools. One hour of lecture, 3 hours of laboratory. Laboratory fee, parttime students, \$5. FALL.
- 9.405 COMPARATIVE VERTEBRATE ANATOMY ² (3)** Comparative anatomical studies of digestive, respiratory, circulatory, endocrine, urogenital, nervous systems of important vertebrate types. *Prerequisite*, 9.404 or *permission of instructor*. One hour of lecture, 3 hours of laboratory. Laboratory fee, parttime students, \$5. SPRING.
- 9.408 PLANT TAXONOMY (4)** Study of local flora; characteristics, phylogeny, ecology. Extensive field work collecting and identifying specimens. Includes trees, shrubs as well as the other flowering plants. *Prerequisite*, 9.211. 2 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. 1958 SPRING AND ALTERNATE YEARS.
- 9.450 ADVANCED BIOLOGICAL STUDIES (4)** Introduction to research provided for competent students in field of special interest. *Prerequisite, permission of department chairman*. Laboratory fee, parttime students, \$5. Offered to meet the needs of individual students.
- 9.460 CLINICAL LABORATORY PRACTICE (7)** 6-month apprentice experience in laboratory of a hospital affiliated with the University in its medical technology program. *Prerequisite, permission of department chairman*. Offered to meet the needs of individual students.
- 9.461 ADVANCED CLINICAL LABORATORY PRACTICE (7)** Advanced study through additional 6 months of hospital laboratory practice. *Prerequisite, satisfactory completion of 9.460 and recommendation of instructor*. Offered to meet the needs of individual students.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

- 9.500 INVERTEBRATE ZOOLOGY ¹ (3)** General classification. Morphology, physiology, evolutionary relationships of Protozoa, Porifera, Coelenterate, Ctenophora, Platyhelminthes, Aschelminthes, miscellaneous minor phyla. Field trips. *Prerequisite, minimum of 12 hours in Biology or permission of department chairman*. One hour of lecture, 3 hours of laboratory. Laboratory fee, parttime students, \$5. FALL.
- 9.501 INVERTEBRATE ZOOLOGY ² (3)** Morphology, physiology, evolutionary relationships of Annelida, Mollusca, Brachiopoda, Arthropoda, Echinodermata, the lower chordates. *Prerequisite* 9.500. One hour of lecture, 3 hours of laboratory. Laboratory fee, parttime students, \$5. SPRING.
- 9.503 GENERAL ENTOMOLOGY (4)** Morphology, life history, classification, and economic importance of insects. *Prerequisite*, 9.210. 2 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. 1957 SPRING AND ALTERNATE YEARS.
- 9.505 VASCULAR PLANTS (4)** Advanced study of anatomy and physiology of roots, stems, leaves, flowers, and fruits of seed plants. Distribution and ecological aspects also considered. *Prerequisite*, 9.211. 2 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. 1957 FALL AND ALTERNATE YEARS.
- 9.507 GENETICS (3)** Principles of heredity and variations in animals and plants. Problems to illustrate Mendelian inheritance. *Prerequisite*, 12 hours in biology. 3 hours of lecture, 2 hours problem work. Laboratory fee, parttime students, \$5. 1957 FALL AND ALTERNATE YEARS.
- 9.510 VERTEBRATE EMBRYOLOGY (4)** Mechanics of development. Formation of germ cells, fertilization, cleavage of the fertilized ovum, morphogenesis, and later development of the frog, chick, and pig. *Prerequisite*, 12 hours in biology. 3 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. 1956 FALL AND ALTERNATE YEARS.

- 9.514 **HISTOLOGY-CYTOLOGY (4)** Structures and properties of cells. Microscopic study of tissues and organs of representative mammals, including man. *Prerequisite*, 12 hours in biology. 2 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. 1957 FALL AND ALTERNATE YEARS.
- 9.515 **BIOLOGICAL TECHNICS (4)** Fundamental technics in the preparation of microscopic slides of plant and animal tissues. Whole mounts. Microphotography. Embedding in plastics. *Prerequisite, permission of department chairman*. 2 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. 1958 SPRING AND ALTERNATE YEARS.
- 9.518 **PARASITOLOGY (4)** Parasites and their relationships to disease and human welfare. Life histories, morphology, identification, and parasitological preparations. *Prerequisite, permission of department chairman*. Laboratory fee, parttime students, \$5. 1956 FALL AND ALTERNATE YEARS.
- 9.519 **NATURAL HISTORY OF LOCAL FAUNA (4)** Study of local animals and of their adaptation, geographical distribution, behavior, relationship to environment. *Prerequisite*, 9.210, 9.211. 2 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. 1958 SPRING AND ALTERNATE YEARS.
- 9.799 **THESIS SEMINAR IN BIOLOGY (3-6)**

Chemistry

Adjunct Professor: DANIEL BANES. *Associate Professors:* MARY H. ALDRIDGE; LEO SCHUBERT (Chairman). *Lecturers:* MAX HELLMANN; LAWRENCE M. KUSHNER; N. L. LAHIRY.

Degree Programs

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Science. See page 62 for information concerning requirements for the degree of Bachelor of Science with major in distributed sciences.

University Requirements38-43 hours
Students majoring in chemistry are advised to complete 15.110 and 15.111 General Chemistry¹ and ² (8) as part of their University requirements.

Departmental Requirements—

ASSOCIATE IN ARTS

Major courses 12 hours
8 hours of this requirement may be satisfied by completion of 15.110 and 15.111 General Chemistry¹ and ² as a part of the University requirements.
Related course 4 hours
Laboratory course in biology.
Tool courses 6 hours
41.110 College Algebra (3) and 41.140 Plane Analytic Geometry (3).

BACHELOR OF SCIENCE

Major courses 40 hours
15.110 and 15.111 General Chemistry¹ and ² (8), 15.200 and 15.201 Quantitative Analysis¹ and ² (8), 15.300 and 15.301 Organic Chemistry¹ and ² (8), 15.400 and 15.401 Physical Chemistry¹ and ² (8), and 8 additional hours in other approved 400- or 500-level courses.
Related courses12-24 hours
Laboratory course in biology (4), 51.200 and 51.201 General Physics¹ and ² (8) are required, 6-12 hours of German are recommended.
Tool courses 12 hours
41.110 College Algebra (3), 41.140 Plane Analytic Geometry (3), 41.220 and 41.221 Differential & Integral Calculus¹ and ² (6).

Electives—

Associate in Arts.....to complete 63 hours
Bachelor of Science.....to complete 126 hours

GRADUATE DEGREE—The University offered the degree of Master of Science in chemistry beginning in the year 1955-1956. For information concerning requirements consult the department chairman or graduate dean.

Undergraduate Courses

- 15.100 PHYSICAL SCIENCE: MATTER (3)** Principles and concepts of chemistry with applications to daily living. Study of matter, its transformations, properties, uses. Demonstrations, no laboratory. Terminal course for non-science majors. SUMMER. FALL. SPRING.
- 15.110 GENERAL CHEMISTRY ¹ (4)** Introduction to the principles of the science with emphasis upon applications of the scientific method. 3 hours of lecture, 3½ hours of laboratory. Laboratory fee, parttime students, \$10. SUMMER. FALL.
- 15.111 GENERAL CHEMISTRY ² (4)** The elements and their compounds. Electro-chemistry, radio-chemistry, organic chemistry, biochemistry. Laboratory work in qualitative analysis. *Prerequisite*, 15.110. 3 hours of lecture, 3½ hours of laboratory. Laboratory fee, parttime students, \$10. SUMMER. SPRING.
- 15.200 QUANTITATIVE ANALYSIS ¹ (4)** Theory of analytical chemistry with emphasis on volumetric analysis. The balance. Analysis of representative samples. *Prerequisite*, 15.111. 3 hours of lecture, 6 hours of laboratory. Laboratory fee, parttime students, \$10. FALL.
- 15.201 QUANTITATIVE ANALYSIS ² (4)** Theory of gravimetric analysis. Instrumental methods such as spectrophotometry, electrometric titrations, electrodeposition, ion exchange. Laboratory work in these techniques. Review of qualitative analysis. *Prerequisite*, 15.200. 3 hours of lecture, 6 hours of laboratory. Laboratory fee, parttime students, \$10. SPRING.
- 15.300 ORGANIC CHEMISTRY ¹ (4)** Chemistry of carbon compounds. Aliphatic compounds and derivatives. Structure and mechanism theory. Laboratory theory and practice in synthesis. *Prerequisite*, 15.111. 3 hours of lecture, 6 hours of laboratory. Laboratory fee, parttime students, \$10. SUMMER. FALL.
- 15.301 ORGANIC CHEMISTRY ² (4)** Aromatic hydrocarbons and derivatives. Isocyclic and heterocyclic compounds. Stereoisomerism and carbohydrates. Laboratory work in qualitative organic analysis. *Prerequisite*, 15.300. 3 hours of lecture, 6 hours of laboratory. Laboratory fee, parttime students, \$10. SUMMER. SPRING.
- 15.400 PHYSICAL CHEMISTRY ¹ (4)** Principles of theoretical chemistry. States of matter, properties of solutions, thermodynamics, equilibrium. *Prerequisite*, 15.201, 51.201 *General Physics* ², (4) and 41.221 *Differential & Integral Calculus* ² (3). 3 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$10. FALL.
- 15.401 PHYSICAL CHEMISTRY ² (4)** Phase rule, kinetics, electrical conductance, electromotive force, atomic structure, radioactivity, surface chemistry. *Prerequisite*, 15.400. 3 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$10. SPRING.
- 15.405 GLASSBLOWING (1)** Techniques of fabricating simple seals, inner seals, joints, bends. Construction of a condenser. 1 hour demonstration, 2 hours of laboratory. Laboratory fee, parttime students, \$5. Offered to meet student needs.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

- 15.510 ADVANCED INORGANIC ANALYTICAL CHEMISTRY (3)** Systematic treatment of modern analytical methods. *Prerequisite*, 15.201. 3 hours of lecture. 1956 FALL AND ALTERNATE YEARS.
- 15.520 ADVANCED ORGANIC CHEMISTRY (4)** Theoretical and systematic organic chemistry. *Prerequisite*, 15.301. 4 hours of lecture. 1956 FALL AND ALTERNATE YEARS.
- 15.522 QUALITATIVE ORGANIC ANALYSIS (4)** Identification of organic compounds through systematic procedures. *Prerequisite*, 15.301. 2 hours of lecture, 6 hours of laboratory. Laboratory fee, parttime students, \$10. 1957 SPRING AND ALTERNATE YEARS.
- 15.524 ORGANIC PREPARATIONS (3)** Preparative methods of organic chemistry. Emphasis on techniques such as vacuum distillation, chromatography, extraction. Reference to original literature. *Prerequisite*, 15.301. 1 hour of lecture, 6 hours of laboratory. Laboratory fee, parttime students, \$10. Not offered 1956-1957.
- 15.526 HETEROCYCLIC COMPOUNDS (3)** Chemistry of pyridine, pyrrole, quinoline, other heterocyclic compounds. 3 hours of lecture. Not offered 1956-1957.
- 15.528 QUANTITATIVE ORGANIC ANALYSIS (3)** Semi-micro determination of carbon, hydrogen, nitrogen, halogen, and certain functional groups. *Prerequisites*, 15.201 and 15.301. 1 hour of lecture, 6 hours of laboratory. Laboratory fee, parttime students, \$10. Not offered 1956-1957.
- 15.540 COLLOID & SURFACE CHEMISTRY (3)** Application of physio-chemical principles to colloidal systems. Solid and liquid surfaces, adsorption, large molecules in solution, structure of natural and synthetic colloids. *Prerequisite*, 15.401. 3 hours of lecture. Not offered in 1956-1957.

- 15.542 **CHEMICAL KINETICS (3)** Reaction rates in gaseous and liquid systems, energy of activation, catalysts. *Prerequisite*, 15.401. 3 hours of lecture. Not offered 1956-1957.
- 15.544 **MOLECULAR STRUCTURE (3)** Structure of molecules through the study of physical techniques and principles. *Prerequisite*, 15.401. 3 hours of lecture. Not offered 1956-1957.
- 15.546 **CHEMICAL THERMODYNAMICS (3)** Principles of thermodynamics applied to simple chemical systems and solutions. Partial molal quantities. *Prerequisite*, 15.401. 3 hours of lecture. Not offered 1956-1957.
- 15.550 **ADVANCED INORGANIC CHEMISTRY (3)** Descriptive inorganic chemistry including the periodic table, coordination compounds, hydrolysis, related matters. *Prerequisite*, 15.201. 3 hours of lecture. 1957 SPRING AND ALTERNATE YEARS.
- 15.556 **RADIOCHEMISTRY (3)** Radioactivity, isotopes, fundamental particles of matter, instruments used for radioactivity and tracer chemistry. *Prerequisite*, 15.401. 3 hours of lecture. Not offered 1956-1957.
- 15.560 **BIOCHEMISTRY ¹ (4)** Fats, proteins, carbohydrates, and their digestion. Enzymes, vitamins, chemotherapy, immunology. *Prerequisite*, 15.301. 3 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$10. 1957 FALL AND ALTERNATE YEARS.
- 15.561 **BIOCHEMISTRY ² (4)** Biological antagonists, respiration, metabolism of foods. Hormones, nutrition, medicine, the nervous system. *Prerequisite*, 15.560. 3 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students \$10. 1958 SPRING AND ALTERNATE YEARS.

Communication

Professor: WILLETT MAIN KEMPTON (Chairman). *Adjunct Professors:* LAWRENCE W. BECKERMAN; LUDWIG CAMINITA, JR.; JAMES R. MOCK; FRANK H. MORTIMER; HAROLD STEPLER. *Associate Professor:* THEODORE H. LEVIN. *Assistant Professors:* H. D. CRAWFORD; HARVEY POPE. *Professorial Lecturers:* FRANCIS P. DOUGLAS; FRANKLIN DUNHAM; STANLEY FIELD; PAUL R. HILL; J. STANLEY MCINTOSH; CARL L. SHIPLEY. *Lecturers:* PATRICIA JEAN BEALL; CHARLES BISHOP; ROBERT BORDLEY; PHIL GAINES; EDWIN HALBERT; EDWIN WARE HULLINGER; ROBERT S. MACK; JACK MCCLELLAND; JOHN F. MCLEOD; JAMES J. MCPHERSON; RUSSELL TORNABENE; EDWIN TRIBBLE.

Degree Programs

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Arts.

University Requirements 38-43 hours

Students majoring in communication are advised to complete 19.201 Introduction to Economics¹ (3), 53.200 American Government: National (3), and 57.200 General Psychology (3), as a part of their University requirements.

Departmental Requirements—

ASSOCIATE IN ARTS

Major courses 12 hours

17.220 Introduction to Journalism (3), 17.260 TV-Radio Practice (3), and 6 additional hours (including a writing course) in journalism or television and radio.

Related courses 6 hours

BACHELOR OF ARTS (with major in communication media, journalism, public relations, or television and radio).

Major courses 42 hours

Related courses 12 hours

Humanities or advanced social science courses.

Electives—

Associate in Arts.....to complete 63 hours

Bachelor of Arts.....to complete 126 hours

GRADUATE DEGREE—Master of Arts.

Course Requirements: Minimum of 30 hours of approved graduate work, 6 of which may be in 17.799 Thesis Seminar-Communication (3-6).

Written Comprehensive Examinations: 3, including one in the communication theory; one in a specialized field of journalism, public relations, television and radio production or writing, visual communication or graphic arts; and one in another specialized field of communication or in a related field.

Other Requirements: Thesis.

Undergraduate Courses

17.220 INTRODUCTION TO JOURNALISM (3) News, feature, editorial, column, advertising, and publicity in their practical application to today's newspapers, magazines, trade publications. Career opportunities. *Prerequisite to other journalism courses.* FALL. SPRING.

- 17.260 TV-RADIO PRACTICES (3)** Comprehensive survey of broadcasting and telecasting operations; responsibilities and activities of each department; lectures and demonstrations by key personnel from the profession. *Prerequisite to other TV-Radio courses.* SUMMER. FALL. SPRING.
- 17.261 TV-RADIO SPEAKING (3)** Effective microphone speaking through individual analysis; preparation and delivery of speech assignments—news, sports, commercials, and special events; introduction to acting and announcing. Laboratory fee, parttime students, \$5. FALL. SPRING.
- 17.320 NEWS REPORTING (3)** Basic instruction in news writing. Types of news stories. Emphasis on practical situations encountered in newsrooms of papers and press associations. FALL. SPRING.
- 17.332 THE SMALL NEWSPAPER (3)** Study and discussion of special problems of community and organization dailies and weeklies, including non-metropolitan and suburban newspapers. FALL.
- 17.361 TV-RADIO WRITING (3)** Practice in writing various types of continuities: commercials, interviews, reports of special events, public service broadcasts. FALL. SPRING.
- 17.364 TV-RADIO ANNOUNCING (3)** Advanced microphone training. On-air, off-air announcing duties and responsibilities. Sustaining, commercial announcing; narration, interviews, reporting, sports and audience participation. Live and filmed commercials. *Prerequisite, 17.261 or equivalent.* Laboratory fee, parttime students, \$3. SPRING.
- 17.366 TV-RADIO ACTING (3)** Studio practice in casting, rehearsing, acting; auditions, signals, characterizations, dialects, pacing, memorization. Study of microphone techniques; relation of actor to other elements in production. Laboratory fee, parttime students, \$3. FALL.
- 17.370 RADIO STATION PROCEDURES (3)** Practical problems in all departments of radio broadcasting stations; practice in control-room operations. FALL.
- 17.468 TV-RADIO PRODUCTION & DIRECTION (3)** Production problems: budget, scripts, casting, rehearsals, timing, sound, music, visuals, showmanship; producer-director's relationship to talent and engineering. Practical application under studio conditions. Laboratory fee, parttime students, \$3. SPRING.
- 17.462 AUDIO EFFECTS FOR TV-RADIO (3)** Function of music and sound in broadcasting: planning, clearance, talent selection; sources of recorded and live sound effects and incidental music; copyright, artists' unions. 1957 AND 1959 SUMMER. 1958 SPRING AND ALTERNATE YEARS.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

COMMUNICATION THEORY

- 17.500 COMMUNICATION HISTORY (3)** Evolution and development of newspapers, magazines, radio, motion pictures, and television as communication media. Influence of historic backgrounds on contemporary ethics and practices. SPRING.
- 17.501 COMMUNICATION LAW (3)** Current legal problems and theory of controls in journalism, visual communication, television and radio. Analysis of libel suits, copyright infringements. No previous knowledge of law required. FALL.
- 17.507 FREEDOM OF INFORMATION (3)** Investigation of access and barriers to information at local, state, national, and international levels. Information access rights and responsibilities of communication media. Individual research projects. 1956 FALL AND ALTERNATE YEARS.

JOURNALISM

- 17.520 EDITING: NEWSPAPERS & PERIODICALS (3)** Training to develop editorial judgment and skills in processing material for publication. Study of problems and practices in making assignments, editing copy, handling departments. SPRING.
- 17.521 EDITORIAL INTERPRETATION (3)** Practice in writing editorials on current subjects. Publication opportunities. Study of newspaper, trade publications, and magazine editorial policies. Analysis of editorial columns and interpretive reviews. SPRING.
- 17.522 MAGAZINE JOURNALISM (3)** Survey of contemporary magazines; various types of periodicals, their backgrounds, trends, functions; staff organization, free lance sources, editorial policies and practices. 1957 AND 1959 SUMMER.
- 17.523 PICTORIAL JOURNALISM (3)** Study of photographic requirements and techniques of newspapers, magazines, syndicates, and trade publications. Training in professional planning, taking, and editing of news and feature photographs. FALL.
- 17.524 ADVANCED NEWS REPORTING (3)** Problems of specialized reporting. Washington and foreign news correspondence. Students cover assignments in these fields, and carry on individual research projects. SPRING.
- 17.525 FEATURE WRITING (3)** Practice in writing feature articles for newspapers, magazines, and business publications. Study of markets and slanting techniques. Preparation and revision of articles for publication. SUMMER. FALL. SPRING.
- 17.526 ADVANCED FEATURE WRITING (3)** Preparation, discussion, and revision of articles for publication by magazines, business publications, syndicates, and newspapers. Author-editor relationship for non-fiction books. *Prerequisite, 17.525.* SPRING. FALL.

- 17.528 **TV-RADIO NEWSWRITING (3)** Newscasting functions and organization of station and network news staffs. Emergency and special events activities. Practical experience using actual wire copy and source materials. SPRING.
- 17.530 **BUSINESS JOURNALISM (3)** Periodicals, newspapers devoted to business and industry; editorial problems and practices of publishing trade journals and house organs. 1956 AND 1958 SUMMER.
- 17.532 **GRAPHIC ARTS (3)** Distinguishing characteristics of type, affinity of type faces, composition, layout, typographic design. Printing, photoengraving, gravure, and lithography. Basic information for planning pamphlets, books, folders. FALL.
- 17.533 **GRAPHIC ARTS: ADVANCED (3)** Analysis of printing for effectiveness in layout and design, use of illustrations. Laboratory work in the production of books, pamphlets, and folders. SPRING.

PUBLIC RELATIONS

- 17.540 **PUBLIC RELATIONS: THEORY & PRACTICE (3)** Survey of public information and public relations programs. Media employed for mass communication—advertising, press, radio, periodicals, pamphlets, films. Case studies of current practices. SUMMER. FALL. SPRING.
- 17.541 **PUBLICITY WRITING (3)** Practical writing techniques for public relations, publicity, and promotional programs. Preparation of articles for newspapers, magazines, and trade journals; radio scripts; promotional booklets, press relations. FALL.
- 17.542 **PROMOTIONAL CAMPAIGNS (3)** Case studies of promotional methods for social organizations, business, and government. Analysis of specific public relations problems. Development of a promotional campaign by each student. SPRING.
- 17.543 **PUBLIC SERVICE BROADCASTING (3)** Television and radio as media for public relations. Problems of various organizations in arranging public service broadcasts; spot announcements, interviews, sponsored versus sustaining programs. SUMMER. SPRING.
- 17.544 **PUBLIC RELATIONS IN GOVERNMENT (3)** Analysis of objectives and problems of governmental agencies in their relations with various publics. Influence of public information on efficiency of administration. SPRING.
- 17.545 **PUBLIC RELATIONS IN BUSINESS (3)** Media and techniques for public relations; emphasis on business and industrial relationships with their various publics—such as labor, trade, dealer, customer, stockholder, and community. SUMMER. SPRING.
- 17.640 **PUBLIC RELATIONS POLICIES (3)** Formulation of policies for long-range public relations programs in business, trade associations, social and civic organizations, federal agencies. Methodology in implementing policy and evaluating results. 1956 FALL AND ALTERNATE YEARS.

TELEVISION AND RADIO

- 17.560 **TV-RADIO DRAMATIC WRITING (3)** Special techniques required for dramatic scripts—sketches, originals, adaptations. Emphasis on plotting, characterization, dialogue, pacing, mood. Use of music and sound for dramatic effects. SUMMER.
- 17.561 **TV DRAMATIC WRITING (3)** Advanced study in the practical application of principles in writing all types of dramatic television scripts. FALL.
- 17.562 **TV WRITING: ADVANCED (3)** Preparation of written materials for television. Differences between television and radio scripts; research methods used for writing commercials, informational programs, and dramatic shows. *Prerequisite, 17,361 or equivalent.* SPRING.
- 17.563 **TV STUDIO OPERATIONS (3)** Relationship of cameras, lighting, staging and audio equipment to TV studio production; differences between station and network operations. Laboratory fee, all students, \$3. FALL.
- 17.567 **ADVANCED TV-RADIO ACTING (3)** Advanced study of talent problems and acting before cameras and microphones in studio situations. Laboratory fee, part-time students, \$3. SPRING.
- 17.569 **ADVANCED TV-RADIO PRODUCTION & DIRECTION (3)** Advanced study of production problems under studio conditions. Laboratory fee, parttime students, \$5. FALL.
- 17.570 **TV-RADIO MANAGEMENT (3)** Broadcasting as a business; network affiliation versus independent operation; training a station staff; labor problems; functions and interrelationships of broadcasting departments; standards of practice. SPRING.
- 17.571 **TV-RADIO ADVERTISING (3)** Television and radio advertising and selling techniques. Advertising agencies—organization and functions; ratings, rate cards, contracts; commercial announcements, programs; audience, market, product analysis; sales campaigns. FALL.
- 17.572 **TV PROGRAMMING (3)** Audience reactions; program building, traffic, scheduling for stations and networks. Procedures used in studio and remote productions. Usefulness of films and visual materials. Studio observation. SUMMER.
- 17.573 **TV WORKSHOP (3)** Advanced training in all phases of television studio production, including script writing, acting, directing, and producing. Enrollment limited; written application required in advance. Laboratory fee, all students, \$30. FALL.
- 17.574 **TV PRODUCTION LABORATORY (3)** Experimental program formats and research in studio production methods. Application of dramatic principles to television situations. Integration of motion picture, slides, and special visual effects. Enrollment limited; written application required in advance. Laboratory fee, all students, \$30. SPRING.
- 17.580 **RECORDING & EDITING PROBLEMS (3)** Planning, producing, editing taped programs for multi-station broadcast. Practical problems in program research; individual and group projects. *Prerequisite, permission of department chairman.* SPRING.

- 17.660 EDUCATIONAL TV-RADIO (3)** Methods of using radio and television as teaching media; sources of programs; creation of instructional materials. 1957 FALL AND ALTERNATE YEARS.
- 17.661 TEACHING WITH TELEVISION (3)** Nature of educational telecasts. Scope of impact at all school levels; integration with curricula. Adult viewing; courses for college credit. Programming trends in educational telecasting. 1956 FALL AND ALTERNATE YEARS.
- 17.662 TV IN THE PUBLIC INTEREST (3)** Informational telecasts, both non-profit and commercial. Analysis of current public service programs; educational TV; comparisons of U. S. and foreign programming. SPRING.

VISUAL MEDIA

- 17.510 HISTORY OF MOTION PICTURES (3)** Motion pictures from their invention to the present. Films emphasize technical and aesthetic developments for students in history, sociology, and communication. Laboratory fee, all students, \$3. FALL.
- 17.513 VISUAL COMMUNICATION (3)** Basic problems of picturing abstract ideas and information through the audio-visual arts; latest developments in cinema, graphics, TV, etc., for advertising, education, public relations. SPRING.
- 17.514 AUDIO-VISUAL TECHNIQUES (3)** Workshop course in selection and use of audio-visual materials for instructional purposes and for other specific communication problems. SUMMER.
- 17.515 MOTION PICTURE WORKSHOP (3)** Production and use of films for television; theory, observation and practice with lighting, audio effects, camera operation on sound stage in studio. Laboratory fee, all students, \$15. FALL.
- 17.516 TV FILM PRODUCTION (3)** Advanced course in production and use of motion pictures in television. Laboratory training in editing and sound recording. Actual preparation of films for television stations. *Prerequisite, permission of departmental chairman.* Laboratory fee, all students, \$15. SPRING.

SEMINARS

- 17.720 RESEARCH SEMINAR IN JOURNALISM (3)**
- 17.740 RESEARCH SEMINAR IN PUBLIC RELATIONS (3)**
- 17.760 RESEARCH SEMINAR IN TELECOMMUNICATIONS (3)**
- 17.799 THESIS SEMINAR IN COMMUNICATION (3-6)**

Distributed Sciences

Degree Programs

The University offers a program leading to the degree of Bachelor of Science with major in distributed sciences for students who plan to teach the natural sciences in secondary schools or who wish to receive a broader background in science at the undergraduate level than is afforded by the usual Bachelor of Science degree. Students majoring in distributed sciences select their major courses primarily from offerings in the fields of biology, chemistry, geology, mathematics, and physics. Students interested in a program in distributed sciences should consult the chairman of any of the natural sciences departments.

<i>University Requirements</i>	38-43 hours
<i>Departmental Requirements—</i>	
Major courses	36 hours
At least 24 hours in one science; at least 12 hours in another.	
Related courses	16 hours
8 hours in each of two additional sciences.	
Tool courses	6 hours
Mathematics.	
<i>Electives</i>	to complete 126 hours

Economics

Professors: ERNST CORRELL; FRITZ KARL MANN; MELVILLE J. ULMER (Chairman). *Adjunct Professors:* EDWARD L. ALLEN; LLOYD D. BLACK; PETER G. FRANCK; GUSTAV PECK; HOWARD S. PIQUET; MYLES E. ROBINSON; MURRAY ROSS; AMOS E. TAYLOR; GEORGE A. TESORO; OSCAR WEIGERT. *Associate Professor:* ALFRED SHERRARD. *Assistant Professors:* JOHN E. McGRATH; DANIEL L. SPENCER. *Professorial Lecturers:* RUSSELL S. BERNHARD; GEORGE W. BROOKS; MONROE BURK; J. HERBERT FURTH; RAYMOND W. GOLDSMITH; EZEKIEL LIMMER; CHARLES MERWIN; SIMON NAIDEL; HOBART S. PERRY; FRANK TAMAGNA. *Lecturers:* ASHER ACHINSTEIN; L. JAY ATKINSON; JOHN M. BLAIR; MANUEL EBER; PAUL FISHER; WILLIS T. GEHRKE; DONALD HORTON; VLADIMIR KATKOFF; SAMUEL L. KATZ; SAR A. LEVITAN; LEONARD LINSENMAYER; MALCOLM O. MILLER; JULIUS SHISHKIN; EMIL G. SPITZER.

Degree Programs

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Arts.

<i>University Requirements</i>	38-43 hours
Students majoring in economics are advised to complete 19.201 Introduction to Economics ¹ (3) as a part of their University requirements.	
<i>Departmental Requirements—</i>	

ASSOCIATE IN ARTS

Major courses	12-24 hours
Including 19.202 Introduction to Economics ² (3).	
Related courses	0-6 hours

BACHELOR OF ARTS

Major courses	30 hours
Including 19.202 Introduction to Economics ² (3), 9 hours in theoretical economics, and 9 hours in descriptive economics as approved by the department.	
Related courses	12 hours
Advanced work selected from the following fields, with not more than 9 hours in any one: anthropology, business administration, government, history, international relations, philosophy, psychology, public administration and sociology.	
Tool courses	6 hours
Statistics, mathematics, accounting or a modern foreign language.	

Electives—

Associate in Arts.....	to complete 63 hours
Bachelor of Arts.....	to complete 126 hours

GRADUATE DEGREES—Master of Arts and Doctor of Philosophy in economics and in economic history.

MASTER OF ARTS DEGREE

Course Requirements: Minimum of 30 hours of approved graduate work, 6 of which may be in 19.799 Thesis Seminar-Economics (3-6).

Written Comprehensive Examinations: 3, including one in contemporary economic theory or the history of economic thought; and two others, at least one of which must be in a specialized field of economics or of economic history.

Other Requirements: Thesis.

DOCTOR OF PHILOSOPHY DEGREE

Course Requirements: Minimum of 72 hours of approved graduate work, at least 30 of which must be completed in residence at The American University.

Written Comprehensive Examinations: For the degree in economics—5, including one in the history of economic thought; one in contemporary economic theory; one in economic history; one in a specialized field of economics such as money and banking, labor economics, public finance, international trade, or economic planning; and one in another specialized field of economics or in a related field. For the degree in economic history—5, including one in history of economic thought or contemporary economic theory; three in specialized fields of economic history; and one in a specialized field of economics.

Other Requirements: Proficiency examinations in two research tools (accounting, French, German, statistics, or approved substitutes), thesis and oral examination on thesis.

Undergraduate Courses

- 19.201 INTRODUCTION TO ECONOMICS¹ (3) Institutional framework. Fundamental aggregative relationships of income, consumption, investment. Includes resources, agricultural, national income, business cycles, public and private finance, employment programs, international relations. SUMMER. FALL. SPRING.
- 19.202 INTRODUCTION TO ECONOMICS² (3) Elementary theory of price, monopolistic competition, income distribution, foreign trade, public policy, comparative economic systems. *Prerequisite*, 19.201. SUMMER. FALL. SPRING.

- 25.203 INTRODUCTION TO ECONOMIC GEOGRAPHY (3)** World survey of production and consumption of major commodities. Economic development, standards of living in major regions. Resources, man-land ratios, techniques. FALL.
- 25.204 EARTH RESOURCES (3)** Origin and distribution of land forms. Natural vegetation, vegetation regions. Nature and distribution of soils. Economic minerals. Water resources. Conservation. SPRING.
- 19.301 INTERMEDIATE ECONOMIC THEORY (3)** Theory of relative prices and income distribution under perfect and imperfect competition. *Prerequisite*, 19.202. FALL. SPRING.
- 19.303 BUSINESS CYCLES (3)** Historical, theoretical analysis of the waves in economic activity and their social implications. An introduction to dynamic economics. FALL.
- 19.304 LANDMARKS OF ECONOMIC THEORY (3)** Significant economic ideas found in the writings of Smith, Ricardo, Mill, Marx, Marshall, Veblen, Keynes; historical settings in which their ideas developed. SPRING.
- 19.311 FINANCIAL ORGANIZATION OF SOCIETY (3)** Structure, operation of the commercial banking system, savings banks, life insurance companies, investment banks, the securities markets, consumer and farm credit institutions, and the financial structure of corporate business. FALL.
- 19.312 MONEY & BANKING (3)** The role of money and credit in the economy. Organization of the banking system, related institutions in the U. S. Introduction to monetary theory, credit control. SUMMER. SPRING.
- 19.321 ECONOMIC DEVELOPMENT¹ (3)** Origin, development, present status of economic institutions. World trends in population, living standards, output and technology. FALL. SPRING.
- 19.322 ECONOMIC DEVELOPMENT² (3)** A continuation of 19.321 with particular emphasis upon experience in the U. S. SPRING.
- 19.400 INTERNATIONAL ECONOMICS (3)** Basic factors in the functioning of the world economy, economic principles underlying international trade, international payments, determination of exchange rates, and capital transfers. *Prerequisite*, 19.202. FALL. SPRING.
- 19.401 CONSUMER ECONOMICS (3)** Structure of consumption. Consumption goods standards and quality testing. Family expenditures and personal finance. Standards of living, income distribution, demand. FALL.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

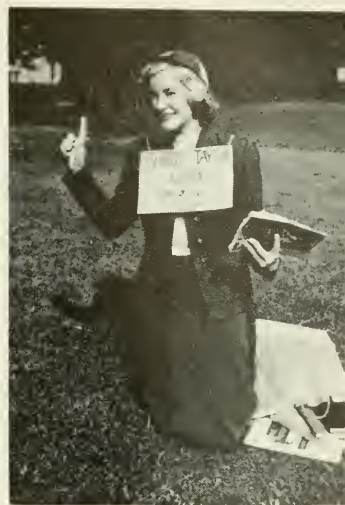
ECONOMIC THEORY

- 19.510 HISTORY OF ECONOMIC THOUGHT¹: EARLY PERIOD (3)** Social, economic theories from the Greek philosophers to 18th century physiocrats examined in relation to dominant and receding institutions. SUMMER. FALL.
- 19.511 HISTORY OF ECONOMIC THOUGHT²: MODERN PERIOD (3)** Economic problems and their solutions from the physiocrats and classicists to the marginal utility and general equilibrium schools, including institutional and socialist approaches. SPRING.
- 19.512 EQUILIBRIUM ANALYSIS¹: THEORY OF PRICES & PRODUCTION (3)** Advanced analysis of demand curves, supply curves, and the equilibrium of the consumer, the firm, the industry under various market situations. SUMMER. FALL.
- 19.513 EQUILIBRIUM ANALYSIS²: THEORY OF INCOME DISTRIBUTION (3)** Application of general price theory to functional distribution. Demand for, supply of, labor and other productive services. Time preference and liquidity preference. SUMMER. SPRING.
- 19.514 THEORY OF INCOME & EMPLOYMENT (3)** Analysis of economic aggregates; saving, investment, consumption, national income, employment. The multiplier and the acceleration principle. Role of prices, money supply, interest rates. SUMMER. SPRING.
- 19.515 THEORY OF BUSINESS FLUCTUATIONS (3)** Advanced analysis of cycles in general level of business activity. Business cycle theories, Sismondi and Marx to Mitchell and Keynes. Implications for social control, business forecasting, national-international stability. FALL.
- 19.516 THEORY OF ECONOMIC DEVELOPMENT (3)** Development of capitalism and its long-term outlook. Role of business enterprise, technology, population growth, international relations, financial institutions, the relations between capital and labor. SPRING.
- 19.517 ECONOMIC PLANNING: INCOME STABILIZATION (3)** Public, private policies relating to the stabilization of business: compensatory spending, incentive taxation, price and wage determination, inventory policy, monopoly and competition. SPRING.
- 19.518 NATIONAL INCOME & WEALTH: SOCIAL ACCOUNTING (3)** Concepts, sources, methods used in measuring and analyzing national income, income payments, national product, capital formation, consumer expenditures, saving, wealth. FALL.
- 19.519 THEORY OF MONOPOLISTIC COMPETITION (3)** Theoretical problems arising from product differentiations, advertising, salesmanship, restricted entry, other modifications of pure competition. Interrelations among rival firms. Effect of monopolistic elements on cost, income distribution. SPRING.
- 19.610 MATHEMATICAL ECONOMICS (3)** Application of mathematical reasoning to the study of economics, with particular attention to the analysis of microeconomic relations and their logical implications. *Prerequisite*, 41.220 *Differential and Integral Calculus*.¹ FALL.



The Float Parade During Homecoming Festivities

Capping Ceremonies
... Freshman Week



President Crowns
Homecoming Queen



Students Relax
in front of
Battelle Library



Water Ballet . . . Leonard Hall



Women Students
Play Field Hockey



Practice Session
For Cheer Leaders



Women Students
In Archery
Practice

- 19.611 CONSTRUCTION OF ECONOMIC MODELS & ECONOMIC ANALYSIS (3)** Models as a tool of economic analysis. Discussion of some current models and their relation to economic projections and policy decisions. FALL.
- 19.612 ECONOMIC THEORY: PSYCHOLOGICAL & INSTITUTIONAL APPROACHES (3)** Comparison of underlying assumptions and logic with those of classical and neo-classical economics. Socialistic economics, other theories, including the aggregative approach of the Keynesians. FALL.
- 19.613 INSTITUTIONAL ECONOMICS (3)** Methodology, substantive contributions of the institutionalists. Literature of Veblen, Commons, Mitchell, their followers. SPRING.
- 19.614 ECONOMIC PLANNING: PRICES, OUTPUT, INCOME DISTRIBUTION (3)** Welfare implications in the determination of commodity prices, factor prices, allocation of resources. Effects of government planning. FALL.
- 19.616 THEORY OF AGGREGATES (3)** Economics of J. M. Keynes. Theoretical forerunners, modern refinements. Applications to business cycles, theory of economic development, public policy. SPRING.
- 19.618 THE SCHUMPETERIAN SYSTEM (3)** Survey of Schumpeter's social philosophy, methodology, and most influential doctrines. Comparison of his system with other theoretical developments. FALL.
- 19.619 ECONOMICS OF GROWTH (3)** Long-run behavior of national income, population, savings, investment, consumption, technology, business organization in industrially developed countries. SPRING.

MONEY, CREDIT, BANKING

- 19.520 MONETARY & BANKING THEORY (3)** Money and credit as factors influencing income, prices, employment, interest rates. Creation of credit and its control. Velocity of circulation. Liquidity preference. SPRING.
- 19.524 COMMERCIAL BANKING POLICIES (3)** Bank liquidity principles. Short-term lending practices, the term loan; agricultural, consumer, mortgage credit. Structure of interest rates. Bank capital, earnings, supervision. FALL.
- 19.621 THEORY & MANAGEMENT OF CENTRAL BANKING (3)** Functions of central banks. Quantitative, qualitative instruments of central banking policy. Contribution of central banks to economic and monetary stabilization. International responsibilities. SPRING.
- 19.681 INTERNATIONAL FINANCE (3)** Modern theories concerning price levels, balance of trade, capital movements. Exchange restrictions, regulations. The International Bank and International Monetary Fund. FALL.

PUBLIC FINANCE

- 19.529 ECONOMICS OF PUBLIC FINANCE (3)** Principles of budgeting, public spending, debt management, tax policy. Comparative survey of fiscal institutions in the U. S. and abroad. FALL.
- 19.530 FISCAL THEORY (3)** Government financing and fiscal control. Fiscal policies and welfare economics. How to support economic stabilization and full employment by fiscal means. SPRING.
- 19.632 ADVANCED FISCAL THEORY (3)** Discussion of selected problems of fiscal theory. Continuation of 19.530, which is prerequisite to this course. SPRING.
- 31.023 INSTITUTE ON FEDERAL TAXES (No credit)** See page 94.

INTERNATIONAL ECONOMICS

- 19.580 INTERNATIONAL ECONOMIC RELATIONS (3)** National policies related to tariffs, reciprocal trade agreement programs, raw materials, cartels, foreign assistance. *Prerequisite, graduate work in economic theory.* FALL.
- 19.581 FOREIGN ECONOMIC POLICIES: PROBLEMS CONFRONTING THE U. S. (3)** Formulation, execution of foreign economic policies and programs. International economic and trade position of the U. S. Foreign assistance and underdeveloped areas programs. *Prerequisite, permission of department chairman.* SPRING.
- 19.582 ECONOMIC PROBLEMS: LATIN AMERICA (3)** Economic geography, population, government organization, public finance, currency, foreign trade, balance of payments, foreign investments, prospects of economic advancement. FALL.
- 19.583 ECONOMIC PROBLEMS: WESTERN EUROPE (3)** Economic geography, population, government organization, public finance, currency, foreign trade, balance of payments, foreign investments, prospects of economic advancement. SUMMER.
- 19.584 ECONOMIC PROBLEMS: SOVIET UNION (3)** Economic geography, population, government organization, public finance, currency, foreign trade, balance of payments, foreign investments, prospects of economic advancement. SPRING.
- 19.585 ECONOMIC PROBLEMS: MIDDLE EAST (3)** Economic geography, population, government organization, public finance, currency, foreign trade, balance of payments, foreign investments, prospects of economic advancement. SPRING.
- 19.586 ECONOMIC PROBLEMS: ASIA (3)** Economic geography, population, government organization, public finance, currency, foreign trade, balance of payments, foreign investments, prospects of economic advancement. SPRING.

- 19.587 **STRUCTURE & OPERATION OF THE SOVIET ECONOMY (3)** National planning structure and its evolution. Limitations, capabilities, economic potential of the U. S. S. R. FALL.
- 19.588 **COMPARATIVE FOREIGN ECONOMIC POLICIES (3)** Lectures by foreign nationals on the international economic position and policies of principal trading countries. Significance of these policies to the U. S. SPRING.
- 19.589 **ECONOMIC PROBLEMS OF UNDERDEVELOPED COUNTRIES (3)** Trends in living standards, capital formation, industrial-agricultural techniques, monetary structures, income distributions, foreign trade of underdeveloped countries; problems stemming from them. FALL.
- 19.595 **COMPARATIVE ECONOMIC SYSTEMS (3)** Principles governing pricing, income distribution, productivity, investment, economic stability, growth under capitalism, democratic socialism, totalitarian socialism. *Prerequisite*, 19.301. FALL.
- 19.680 **THEORY OF INTERNATIONAL TRADE (3)** Theories of international trade: gain from trade, income and international balances, exchange rate stability, alternative monetary standards. Basic policy issues. *Prerequisite*, 19.580. SPRING.

GEOGRAPHY

- 25.521 **ECONOMIC GEOGRAPHY ¹: FOOD & AGRICULTURE (3)** World survey of production, distribution, consumption of agricultural commodities. Problems, potentials of major nations and world regions. International trade in agricultural products. FALL.
- 25.522 **ECONOMIC GEOGRAPHY ²: MINERAL RESOURCES & MANUFACTURING (3)** World survey of mineral resources and manufacturing industries. Power resources, raw materials, market areas, transportation, labor, and governmental factors. SPRING.
- 25.523 **GEOGRAPHIC FACTORS IN BUSINESS & INDUSTRY (3)** Applications of geographical techniques to problems in agriculture, mining, manufacturing, marketing, transportation, communications, international trade, regional planning. Not offered 1955-1956.
- 25.525 **ECONOMIC & POLITICAL GEOGRAPHY OF UNDERDEVELOPED AREAS (3)** Population, territorial framework, resources, industries of areas included under Point Four. Plans, policies, problems projected on geographical setting. FALL.
- 25.530 **WORLD POLITICAL GEOGRAPHY (3)** Major political problems of the world related to geographic backgrounds. World problem areas, current issues, relationships of national states. SPRING.
- 25.531 **GEOGRAPHY OF AMERICAN REGIONS (3)** Resources, population, and industrial agricultural, urban development. Historical sequence of settlement and resource use. Major regional problems, current trends. FALL.
- 25.532 **GEOGRAPHY OF LATIN AMERICA (3)** Man and resources in Latin America studied by individual countries and regions. Population, economic and political life, natural resource base. Historical sequence of land occupancy. SPRING.
- 25.540 **GEOGRAPHY OF WESTERN EUROPE (3)** Population, resources, and economic and political life in Western Europe including the British Isles, Scandinavia, Finland, Benelux, France, Germany, Austria, Italy, Greece, Portugal, and Spain. FALL.
- 25.550 **GEOGRAPHY OF THE SOVIET UNION & EASTERN EUROPE (3)** Population, industrial and agricultural production, the resource base. Use of the land as influenced by politics, technology. SUMMER.
- 25.560 **GEOGRAPHY OF SOUTHERN & EASTERN ASIA (3)** Population, natural resources, economic and political life in Japan, Korea, China, India, Pakistan, Burma, Thailand, Indo-China, Indonesia, the Philippines. SPRING.
- 25.580 **USE & EVALUATION OF MAPS (3)** Map reading and interpretation. Physical, distributional, statistical, communications, economic, land-use, other special-subjects maps. Use of maps in government and business. SPRING.

AGRICULTURAL & INDUSTRIAL POLICIES

- 19.540 **ECONOMICS OF AGRICULTURE (3)** Factors influencing farm size, organization, product specialization. Economics of agricultural production, prices, public policy. FALL.
- 19.541 **ECONOMICS OF AMERICAN INDUSTRY (3)** Survey of principal manufacturing industries of the U. S. Emphasis on sources of data and on the development of a workable technique of industry analysis. FALL.
- 19.542 **CURRENT PROBLEMS OF AMERICAN INDUSTRY (3)** Principal problems facing manufacturing industries in the U. S., such as changing raw material sources, locational and pricing adjustments. Trends in public control. SPRING.
- 19.543 **INDUSTRIAL CONCENTRATION & PUBLIC POLICY (3)** Extent and forms of monopoly in the American economy. Objectives, methods, techniques of government control. International comparisons. FALL.
- 19.544 **PUBLIC UTILITY ECONOMICS (3)** Introduction to public utility problems. History, operation, finance, rates of public utilities. Government regulation, government operation. FALL.
- 19.640 **CURRENT ISSUES OF AGRICULTURAL POLICIES (3)** Agricultural policies in the U. S. and foreign countries. Technical developments, conservation of natural resources, prices, financing, production control. SPRING.

LABOR POLICIES

- 19.550 HISTORY OF THE U. S. LABOR MOVEMENT (3)** Causes, results of organized efforts to regulate the conditions of work and the well-being of workers. Political, economic objectives; social problems raised by the labor movement. SUMMER. FALL.
- 19.551 HISTORY OF THE EUROPEAN LABOR MOVEMENT (3)** Development of the labor movement in Europe. Comparative historical view of trade union ideologies, objectives, structure, methods. International trade union federations. SPRING.
- 19.552 LABOR & THE ECONOMIC ORDER (3)** Trends affecting the position of labor in modern society. Problems of the determination of wages, hours, working conditions, social security. FALL.
- 19.553 CURRENT LABOR PROBLEMS¹: DOMESTIC (3)** Union policies with respect to pensions, insurance, the guaranteed wage, incentive systems, profit sharing, adjustments for living costs and productivity. Non-economic provisions in labor contracts. SPRING.
- 19.554 CURRENT LABOR PROBLEMS²: INTERNATIONAL (3)** Comparative survey of labor problems in a selected group of foreign countries, including France, Italy, Sweden, the United Kingdom. The International Labor Organization and other international bodies. SUMMER.
- 19.555 LABOR & THE LAW (3)** Actions of legislatures, courts, administrative agencies with respect to unions, their activities and responsibilities. Current legal problems of organized labor. FALL.
- 19.556 LABOR-GOVERNMENT RELATIONSHIP (3)** Wagner and Taft-Hartley acts. The National Labor Relations Board, special federal commissions and boards, other agencies affecting wages and working conditions. SUMMER.
- 19.557 COLLECTIVE BARGAINING (3)** Local, regional, national collective bargaining. Theory, procedure, objectives, scope, effects. Relationship to conciliation, mediation, arbitration, fact-finding boards. FALL.
- 19.558 SETTLEMENT OF LABOR DISPUTES (3)** Advanced course in resolving labor disputes, including collective bargaining, grievance negotiation, conciliation, mediation, arbitration, and the like. SPRING.
- 19.559 LABOR ECONOMICS (3)** Labor markets and wage structure. Wage theories and policies. Labor productivity, real wages, income, employment, unemployment. SPRING.
- 19.575 LABOR RELATIONS & THE MILITARY PROGRAM (3)** Labor relations and manpower: military personnel, civil service employees, private industry. Strikes and jurisdictional disputes. Universal military service. Deferment policy. FALL.
- 19.650 THEORY OF WAGES & PROFITS (3)** History of wage and profit doctrines. The marginal productivity theory of wages. Alternative profit theories. Interactions between wages and profits and national income. SUMMER.
- 19.651 STRUCTURE OF THE LABOR MARKET (3)** Application of economic principles to the analysis of labor markets. Case studies and statistical relationships. Effects of unionism. SPRING.
- 19.652 PROTECTIVE LABOR LEGISLATION (3)** Federal, state legislation on wages and hours, legislation affecting the labor supply, regulation of working conditions. FALL.

TRANSPORTATION*

- 19.560 BASIC PROBLEMS IN TRANSPORTATION & COMMUNICATION (3)** Principles governing mechanics, operation, traffic management, regulation of all modes of transportation: rail, highway, water, air, pipelines. Principles of communication: mail, telegraph, telephone, radio, television. FALL.
- 19.561 RAIL TRANSPORTATION (3)** Railroad organization, administration, operation, traffic, finance in the U. S. Problems of consolidation and reorganization. Railroad labor. SPRING.
- 31.022 RAIL TRANSPORTATION INSTITUTE (No credit)** See page 94.
- 19.562 HIGHWAY TRANSPORTATION (3)** Highway system and commercial motor transportation in the U. S. Construction, administration, finance. Economics of private automobile and truck operation. SUMMER.
- 19.563 OCEAN TRANSPORTATION (3)** Economic characteristics, functions, position of the world's ocean shipping, with particular reference to the U. S. Security and national policy aspects of the industry. FALL.
- 19.564 AIR TRANSPORTATION (3)** Operation, traffic, rates, government action in air transportation. Problems in management of air-carriers. FALL.
- 31.021 AIR TRANSPORTATION INSTITUTE (No credit)** See page 94.
- 19.565 WESTERN HEMISPHERE TRANSPORTATION (3)** Transportation problems in the U. S., Latin America, Canada. Characteristics of the available means of transportation, traffic demand, other principal issues. SUMMER.
- 31.025 FOREIGN TRANSPORTATION INSTITUTE (No credit)** See page 94.
- 19.566 TRAFFIC MANAGEMENT¹ (3)** Factors determining rates and services for commercial shippers. Analysis of tariffs, classification, routing of traffic, shipping documents, liability and claims. FALL.

*A limited number of Arthur Godfrey Air Fellowships for laboratory practice to qualify for private pilot's licenses are available to students specializing in transportation. Students interested apply to Melville J. Ulmer, 1901 F Street, N. W.

- 19.567 **TRAFFIC MANAGEMENT** ² (3) Economic factors underlying rate-making. Duty of carriers to establish reasonable and non-discriminatory rates and services. Routing and misrouting of freight. *SPRING.*
- 31.020 **INDUSTRIAL TRANSPORTATION AND TRAFFIC MANAGEMENT INSTITUTE** (No credit) See page 94.
- 19.568 **INTERSTATE COMMERCE LAW** ¹ (3) Review of the Interstate Commerce Act with emphasis upon regulatory problems, illustrated by leading decisions of the courts and the I. C. C. *SUMMER.*
- 19.569 **INTERSTATE COMMERCE LAW** ² (3) Statutory provisions relating to procedure and jurisdiction. I. C. C. rules of practice. Rules of evidence followed in administrative proceedings. I. C. C. code of ethics. *SUMMER.*
- 19.570 **AIRPORTS** (3) Airport organization, management, operation, and traffic, including airlines operation, traffic control, weather services. Questions of location, construction. *SPRING.*
- 19.571 **TRENDS & PROBLEMS IN TRANSPORTATION** (3) Current issues facing the various modes of transportation, in traffic, operation, regulation. *Prerequisite, 19.560. SPRING.*
- 19.572 **PRINCIPLES & PROBLEMS OF MILITARY TRANSPORTATION** (3) Organization, coordination of military transportation. Relations with civilian agencies. Use of civilian carriers. Capabilities of military transportation systems. *SPRING.*
- 19.670 **TRANSPORTATION POLICIES** (3) Advanced course on government carrier, shipper policies. Interrelationships between transportation policies and those governing other economic factors. *FALL.*

SEMINARS

- 19.710 **SEMINAR IN ECONOMIC THEORY** ¹ (3) Advanced analysis of problems in the theory of value and distribution, welfare economics, the theory of economic development. Discussion and supervised research. *Prerequisite, permission of instructor. FALL.*
- 19.711 **SEMINAR IN ECONOMIC THEORY** ² (3) Advanced analysis of problems in the theory of employment and income, dynamic economics, business fluctuations. Discussion and supervised research. *Prerequisite, permission of instructor. SPRING.*
- 19.780 **SEMINAR IN INTERNATIONAL FINANCE** (3) Current trends; operation of international financial agencies; recovery programs. *Prerequisite, permission of instructor. FALL.*
- 19.799 **THESIS SEMINAR IN ECONOMICS** (3-6)

Education

Professor: SAMUEL ENGLE BURR, JR. (Chairman). *Assistant Professors:* ELOISE NELSON MAGAW; GLADYS V. JORGENSEN. *Adjunct Professor:* ROBERT N. WALKER. *Professorial Lecturers:* WILMER F. BENNETT; B. WILLARD DE SHAZO; EUGENE R. FAIR; SARAH C. SAUNDERS. *Lecturers:* EVELYN L. BULL; WALLACE W. CULVER; WILLIAM H. JENKINS; OLIVE MCKAY; LOUISE S. WALKER; IRENE B. YOUNG.

Degree Programs

UNDERGRADUATE DEGREES—Undergraduate students who plan to become teachers in secondary schools should major in the field in which they plan to teach. They should complete 57.200 General Psychology (3) and as many courses in education as may be required for teacher certification in the state in which they intend to teach. The requirement in education varies from state to state but usually is 18-24 hours. A student interested in preparing for secondary school teaching should consult the chairman of the Department of Education and the chairman of the department in which he wishes to major for information concerning the requirements applicable to his case. The department offers no Associate Degree.

The department offers programs leading to the degree of Bachelor of Arts with major in elementary education for students who plan to become teachers in elementary schools. The requirements are as follows:

University Requirements 38-43 hours

Students majoring in elementary education are advised to complete 57.200 General Psychology (3) as a part of their University requirements.

Departmental Requirements—

Major courses 24 hours
Related courses 12 hours

Electives to complete 126 hours

GRADUATE DEGREE—Master of Arts. (The University plans to introduce programs leading to the degree of Doctor of Education during the course of the year 1956-1957.)

Prerequisites: A student planning to teach must present evidence of adequate undergraduate preparation for the subjects or areas in which he wishes to teach.

Course Requirements: Minimum of 30 hours of approved graduate work, which may include up to 6 in 21.799 Thesis Seminar-Education (3-6).

Written Comprehensive Examinations: 3, including one in elementary education, secondary education, adult education, or school administration; one in the history and philosophy of education, educational psychology, tests and measurements, comparative and international education, guidance and counseling, higher education, or a related field; and one from another of the fields listed above.

Other Requirements: Thesis.

Undergraduate Courses

- 21.100 INTRODUCTION TO COLLEGE¹ (1)** Courses planned to help student to achieve mature physical, social, intellectual, emotional, spiritual habit patterns and to deal with problems of adult life in the University, the community, the contemporary world. FALL.
- 21.101 INTRODUCTION TO COLLEGE² (1)** Continuation of 21.100. SPRING.
- 21.200 INTRODUCTION TO EDUCATION (3)** Survey and comparison of schools of thought and the nature, objects, functions of American education. Attention to the significance of the purposes of the schools. *Prerequisite to all other courses in the department.* SUMMER. FALL.
- 21.300 DEVELOPMENT OF THE ELEMENTARY SCHOOL CHILD (4)** Growth, development of the elementary school child. Consideration of physical, mental, sociological, psychological, moral phases and their interrelation. Role of the school in guiding such development. FALL.
- 21.301 ADOLESCENT DEVELOPMENT (4)** Physiological, sociological, psychological factors of adolescent growth, development. Freedom and independence of choice, heterosexual interests, individual responsibility. Motivation and values in education. FALL.
- 21.310 HISTORY OF EDUCATION IN AMERICAN CULTURE (3)** European backgrounds of American education. Distinctive patterns since colonial times. Social, economic, religious, scientific, moral, political, patriotic, legal, intellectual forces that have influenced education. Study of individual thinkers. SUMMER. FALL.
- 21.320 PSYCHOLOGY OF EDUCATION (3)** Fundamental psychological problems encountered in education. Nature and control of learning process; theories of motivation; development of skills and knowledge; creative learning and critical thinking. *Prerequisite, 57.200 General Psychology.* SUMMER. SPRING.
- 21.340 THE SECONDARY SCHOOL CURRICULUM (4)** Development, organization, operation of the secondary school curriculum particularly as related to adolescent needs, the nature of the learning process, the contemporary social scene. Required of all students planning to teach in secondary school. *Prerequisite, 21.301.* SPRING.
- 21.342 METHODS OF TEACHING IN SECONDARY SCHOOLS¹: (3)** Study of teaching methods in particular specialized subject-matter fields such as education, art, business education, driver education, English and speech, mathematics, modern languages, natural sciences, nursing education, physical education, social sciences. *Prerequisite, permission of department chairman.* FALL.
- 21.343 METHODS OF TEACHING IN SECONDARY SCHOOLS²: (3)** Continuation of 21.342. SPRING.
- 21.350 ELEMENTARY SCHOOL CURRICULUM (4)** Program of the modern elementary school, grades 1 through 6. Nature of the learning process, needs of young children, the larger concept of elementary education. Includes observation in elementary schools, lecture and discussion periods. SPRING.
- 21.352 METHODS IN ELEMENTARY SCHOOLS (3)** Intensive study of the methods used in teaching in modern elementary schools. Over-all aspect of methods will be considered rather than extended study of methods in particular subjects. *Prerequisite, permission of department chairman.* FALL.
- 21.353 METHODS OF TEACHING READING & ARITHMETIC IN ELEMENTARY SCHOOLS (3)** Specialized course in elementary school methods. Should follow 21.352. *Prerequisite, permission of department chairman.* SPRING.
- 21.410 PHILOSOPHY OF EDUCATION (3)** Course for advanced undergraduate students in the processes, purposes, methods of education, with special reference to the organization of the school and its curriculum. *Prerequisite, permission of the instructor.* SUMMER. SPRING.
- 21.430 INTRODUCTION TO SPEECH PATHOLOGY (3)** Causes and characteristics of speech defects. Methods of speech examination and introduction to therapy. Fee, all students, \$5. FALL.
- 21.440 PRINCIPLES OF EDUCATION¹ (3)** Study of the basic principles of education in the U. S. Elementary, secondary, higher education are included. FALL.
- 21.441 PRINCIPLES OF EDUCATION² (3)** Continuation of 21.440. SPRING.
- 21.444 OBSERVATION & PRACTICE TEACHING IN ELEMENTARY SCHOOLS (1-3)** Actual observation, preparation of lesson plans, practice teaching, Grades 1-6 inclusive. Conferences to be arranged with supervisor. Fee, all students, \$10 a credit hour. FALL.
- 21.445 OBSERVATION & PRACTICE TEACHING IN ELEMENTARY SCHOOLS (1-3)** Continuation of 21.444. Fee, all students, \$10 a credit hour. SPRING.
- 21.446 OBSERVATION & PRACTICE TEACHING IN SECONDARY SCHOOLS (1-3)** Actual observation, preparation of lesson plans, practice teaching. Grades 7-12 inclusive. Conferences to be arranged with supervisor. Fee, all students, \$10 a credit hour. FALL.
- 21.447 OBSERVATION & PRACTICE TEACHING IN SECONDARY SCHOOLS (1-3)** Continuation of 21.446. Fee, all students, \$10 a credit hour. SPRING.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

- 21.510 CHILDREN'S LITERATURE IN THE ELEMENTARY SCHOOL CURRICULUM (3)** Where and how to find suitable stories and related materials for use in each of the elementary grades. Use of stories in the curriculum. The child's appreciation for literature. Not offered 1956-1958.

- 21.511 PHYSICAL EDUCATION, GAMES, HEALTH PROGRAMS IN THE ELEMENTARY SCHOOL CURRICULUM (3)** Course designed chiefly for classroom teachers in elementary schools. What the teacher can and should do to supplement the work of the physical education specialists. Not offered 1956-1958.
- 21.512 NATURAL SCIENCES & MATHEMATICS IN THE ELEMENTARY SCHOOL CURRICULUM (3)** Choice of science and mathematics content for use in elementary schools. Grade placement of content. Objects, materials needed in desirable programs. Not offered 1956-1958.
- 21.513 TEACHING FOREIGN LANGUAGES IN ELEMENTARY & SECONDARY SCHOOLS (3)** Comparison of several theories of language teaching. Desirable content material for language instruction on both levels. How and when to introduce language instruction into the curriculum. Not offered 1956-1958.
- 21.514 TEACHING THE SOCIAL STUDIES IN ELEMENTARY & SECONDARY SCHOOLS (3)** Study of objectives of teaching the social studies and results which should be secured. Special reference to recently renewed emphasis on American history, loyalty to the democratic system of government, the capitalist system. Not offered 1956-1958.
- 21.515 THE CORE CURRICULUM IN ELEMENTARY & JUNIOR HIGH SCHOOLS (3)** Definitions of the core curriculum. Study of the use of core curriculum in various schools. Preparation of the teacher who will teach "core." Relationship to other areas in the curriculum. Not offered 1956-1958.
- 21.516 TEACHING CHILDREN IN SPECIAL CLASSES (3)** Study of the special curricula commonly provided in classes for the mentally retarded, the brain-damaged, the physically handicapped, those presenting behavior problems. Goals which can be set for instruction in such classes. Not offered 1956-1958.
- 21.517 THE SCHOOL & MODERN SOCIAL PROBLEMS (3)** Study and analyses of the social bases of the curriculum. Special reference to pupil needs. Current developments; methods of adapting the school to society. *Prerequisite, permission of the instructor.* 1957 SUMMER AND FALL. 1958 SPRING. 1959 SUMMER.
- 21.520 ADVANCED PSYCHOLOGY OF EDUCATION (3)** Psychological principles, research methods basic to education. Consideration of motivation, attitudes, mental abilities, psychology of school subjects. Required of students taking graduate degree programs in education. *Prerequisite, 57.200 General Psychology or permission of instructor.* FALL. SUMMER.
- 21.527 STUDENT-TEACHER RELATIONS IN THE CLASSROOM (3)** Study of the development of wholesome classroom relationship involving both teacher and pupils. Some phases of the daily work of the teacher in the area of good mental hygiene. 1956 FALL. 1957 SUMMER. 1958 SPRING. 1959 SUMMER.
- 21.530 LIBRARY PROCEDURES FOR TEACHERS (3)** Presentation of what teachers should know about the operation and use of school libraries and public libraries. 1959 SPRING.
- 21.542 CURRICULUM CONSTRUCTION IN ELEMENTARY SCHOOLS (3)** Methods and procedures used in curriculum construction for modern elementary schools. Study of certain selected curricula in use today. 1957 SUMMER. 1958 FALL. 1959 SPRING.
- 21.555 ADULT EDUCATION (3)** Philosophies, methods, techniques, materials, agencies, facilities for developing and administering programs of adult education. *Prerequisite, permission of the instructor.* 1958 FALL. 1959 SPRING.
- 21.557 TEACHER PROBLEMS IN SPEECH (3)** Discussion of speech problems and procedures for the classroom teacher. Elementary speech pathology and speech improvement practices for public school children. 1958 SPRING.
- 21.560 ADMINISTRATIVE PROBLEMS OF THE MODERN SCHOOL (3)** Practical consideration of internal organization of elementary and high schools. Emphasis on ways good teachers and administrators develop working relationships. Basic course for all teachers. *Prerequisite, permission of the instructor.* 1957 FALL. 1958 SUMMER. 1959 SPRING.
- 21.570 ANATOMY & PHYSIOLOGY OF THE VOCAL MECHANISM (3)** In addition to a study of the anatomy and physiology of the vocal mechanism, course includes phonetics and the physics of sound. Fee, all students, \$5. 1956 AND 1958 FALL.
- 21.571 SPEECH PATHOLOGY (3)** Diagnosis of speech defects. Methods of therapy. Includes consideration of stuttering, delayed speech, defective articulation, speech of those with cerebral palsy, speech of those with defective hearing, speech of those with cleft palate. Clinical demonstrations. Fee, all students, \$5. 1957 AND 1959 SPRING.
- 21.572 SPEECH IMPROVEMENT IN THE CLASSROOM (3)** Consideration of the role of the classroom teacher and the school supervisor in bringing about improvement in the speech habits of all children in the classrooms. Special attention to unusual needs that can be met by the teacher. 1957 SUMMER. 1959 FALL.
- 31.565 INSTITUTE ON CURRENT PROBLEMS IN EDUCATION (4-6)** See page 95.
- 21.610 PHILOSOPHY OF EDUCATION: ADVANCED (3)** Study of doctrines and principles underlying public and private education in America. Special consideration to the purposes, processes, methods of elementary and secondary education. SUMMER. SPRING.
- 21.615 COMPARATIVE EDUCATION¹: THE WESTERN WORLD (3)** Survey and comparison of educational plans and procedures used in various countries. Greatest attention will be directed to education in the United Kingdom, France, Germany, Canada, and the Latin American nations. 1956 FALL AND ALTERNATE YEARS.
- 21.616 COMPARATIVE EDUCATION²: THE ORIENT (3)** Similar to 21.615, with emphasis upon the educational programs of the far east, rather than the western world. 1957 AND 1959 SPRING.

- 21.640 CURRICULUM CONSTRUCTION IN SECONDARY SCHOOLS (3)** Psychological, cultural, and educational bases of the secondary school curriculum. Practice in construction of curricular materials to meet modern educational problems. 1956 AND 1958 FALL. 1957 AND 1959 SUMMER.
- 21.642 CURRENT TRENDS & PRACTICES IN ELEMENTARY EDUCATION (3)** A survey of current developments in American elementary schools. 1957 SPRING. 1958 SUMMER. 1959 SPRING.
- 21.650 ESSENTIALS OF SCHOOL LAW (3)** A study of the laws governing education in the United States, with special reference to the District of Columbia, Maryland, and Virginia. 1957 FALL. 1959 SUMMER.
- 21.652 FINANCIAL & BUSINESS ADMINISTRATION FOR SCHOOLS (3)** School budgets, bonds, and taxes. Selecting, buying, and distributing supplies and equipment. Accounting systems for finances and materiel. Other business aspects of education. 1956 SUMMER. 1958 SPRING.
- 21.660 INTERNAL SCHOOL ADMINISTRATION (3)** Organization and administration at the local level. Problems of principal in relation to pupil personnel, teacher personnel, finance, public relations, professional problems. *Prerequisite, permission of instructor.* SUMMER. 1957 FALL AND SPRING.
- 21.670 METHODS & MATERIALS OF EDUCATIONAL RESEARCH (3)** Course designed for graduate students, especially those involved in nonthesis research projects. Use of library facilities, statistical procedures, maps, charts, diagrams, graphic representation. How to present the results of education research. 1956 SUMMER. 1958 FALL. 1959 SPRING.
- 21.740 IMPROVEMENT OF INSTRUCTION IN THE SECONDARY SCHOOL (3)** Survey of literature on supervision of instruction, improved teaching methods, and use of teaching aids. Special projects for teachers of various high school subjects. *Prerequisite, a course in the secondary school curriculum or permission of instructor.* 1956 FALL. 1958 SPRING. 1959 SUMMER.
- 71.799 THESIS SEMINAR IN EDUCATION (3-6)**

English

Professors: MERRITT C. BATCHELDER (Chairman); CHARLES M. CLARK; ALVA L. DAVIS; JOHN G. FRANK; HAZEL H. FEAGANS. *Associate Professors:* MARY M. PATTON; RUDOLPH VON ABELE. *Assistant Professor:* JACK H. YOCUM. *Professorial Lecturers:* ZOE WYTHE; LOUISE YOUNG. *Lecturers:* GORDON BRIGHAM; BERNIECE CHAMBERS; JOHN CLENDENIN; RICHARD R. HUTCHESON; FRANK POWDERMAKER.

Degree Programs

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Arts.

University Requirements 38-43 hours

Departmental Requirements—

ASSOCIATE IN ARTS

Major courses 12 hours

BACHELOR OF ARTS

Major courses 24 hours

At least 9 hours must be in courses at the 400 level or above.

Related courses 12 hours

7.200 and 7.201 Survey of Art ¹ and ² (6) and 29.320 and 29.321

History of England ¹ and ² (6).

Electives—

Associate in Arts.....to complete 63 hours

Bachelor of Arts.....to complete 126 hours

GRADUATE DEGREE—Master of Arts.

Course Requirements: Minimum of 30 hours of approved graduate work, 6 of which may be in 21.799 Thesis Seminar-English (3-6).

Written Comprehensive Examinations: 3, including one in English literary history, American literary history, or the English language; one in a well-defined period of English or American literature with special emphasis on a writer of the period; and one in a phase of English language study, or in a related field.

Other Requirements: Proficiency examination in one research tool (French or German or an appropriate substitute), thesis or (in certain cases) 6 hours of seminar study in lieu of thesis.

Undergraduate Courses

- 23.100 ENGLISH COMPOSITION ¹ (3) Study and practice in expository writing. SUMMER. FALL. SPRING.
- 23.101 ENGLISH COMPOSITION ² (3) Expository writing, including a research paper. *Prerequisite*, 23.100. SUMMER. FALL. SPRING.
- 23.110 ENGLISH FOR FOREIGN STUDENTS ¹ (3) English taught as a foreign language. Instructional method identical with introductory modern foreign language courses. SUMMER. FALL.
- 23.111 ENGLISH FOR FOREIGN STUDENTS ² (3) Course preparing students studying English as a foreign language to enter first year English courses. *Prerequisite*, 23.110 or permission of the instructor. SUMMER. SPRING.
- 23.170 VOICE & DICTION (3) Development of the voice through training in proper articulation, phonation, respiration. Recordings, individual interviews, training sessions held to aid the student with his personal speech problems. Fee, parttime students, \$5. FALL. SPRING.

- 23.220 WORLD LITERATURE¹ (3)** (*formerly Human Values in World Literature*) Introduction to literary masterpieces of Western civilization from the ancient Greeks to the 18th century. For students not majoring in English. *Prerequisite*, 23.101. SUMMER. FALL.
- 23.221 WORLD LITERATURE² (3)** (*formerly Issues in Modern Literature*) Introduction to European and American literary masterpieces of the 19th and 20th centuries. *Prerequisite*, 23.220. SUMMER. SPRING.
- 23.230 ENGLISH LITERATURE¹ (3)** Survey of prose and poetry from the beginnings to about the middle of the 18th century. *Prerequisite to a major in English and to advanced courses in literature*. SUMMER. FALL.
- 23.231 ENGLISH LITERATURE² (3)** English poetry and prose from the middle of the 18th century to the 20th century. *Prerequisite*, 23.230. SUMMER. SPRING.
- 23.270 PUBLIC SPEAKING (3)** Theory and application of the fundamentals of public speaking with emphasis on organization and delivery of the various types of speeches, as well as audience psychology and factors of attention. FALL. SPRING.
- 23.271 INTERPRETATIVE READING¹ (3)** Analysis, interpretation, practice in expressive reading of literature to develop ability in sharing literature with an audience. *Prerequisite*, 23.170 or 23.270. 1956 FALL AND ALTERNATE YEARS.
- 23.272 INTERPRETATIVE READING² (3)** Practice in use of techniques of effective oral interpretation. Presentation of selections from classical and modern drama and fiction. Interpretative recital required of each student. 1957 SPRING AND ALTERNATE YEARS.
- 23.273 INTRODUCTION TO THE THEATER (3)** Survey of the various phases of theater from the standpoint of dramatic literature and aesthetics. FALL.
- 23.274 PLAY PRODUCTION (3)** Survey of technical aspects of theater that go to make up the production of a play, including direction, scene construction and design, lighting, make-up. Each student will prepare a prompt book for a one-act play. SPRING.
- 23.275 ARGUMENTATION & DEBATE¹ (2)** Techniques of argumentative speaking as applied to debate and group discussion. Emphasis is placed on the gathering, organization, and delivery of argumentative speeches. FALL.
- 23.276 ARGUMENTATION & DEBATE² (2)** Detailed study of logic as applied to argumentative speaking and the recognition and method of dealing with logical fallacies. SPRING.
- 23.300 ADVANCED WRITING¹ (3)** Training in writing, expository and/or narrative, through individual projects suited to the students' needs and interests. *Prerequisite*, 23.101 with grade C or better, or permission of the instructor. FALL.
- 23.301 ADVANCED WRITING² (3)** Style and structure in writing prose. Practice in writing short essays of various types, poetry, and fiction. Readings, discussions, conferences. *Prerequisite*, permission of instructor. SPRING.
- 23.306 COPY-EDITING & ABSTRACTING (3)** Study of the mechanical details of preparation of copy for the printer, with special emphasis on Government Printing Office style in capitalization, abbreviation, and punctuation. Not offered 1956-1957.
- 23.307 PROOFREADING & INDEXING (3)** Proofreader's responsibilities in correcting galley, page, and subsequent proofs; proofroom procedure; government printing practices. *Prerequisite*, permission departmental chairman. Laboratory fee, parttime student, \$4. Not offered 1956-1957.
- 23.320 SHORT NARRATIVE¹ (3)** Shorter forms of narrative, prose, and verse, in English literature from medieval times to the 18th century. Readings, lectures, discussions, and a term paper. 1956 FALL AND ALTERNATE YEARS.
- 23.321 SHORT NARRATIVE² (3)** Survey of the short story in English and American literature from the 18th century to the present. 1957 SPRING AND ALTERNATE YEARS.
- 23.330 ROMANTIC LITERATURE¹ (3)** Chief poems and critical essays of Wordsworth and other writers of the period. *Prerequisite*, 23.231. 1956 FALL AND ALTERNATE YEARS.
- 23.331 ROMANTIC LITERATURE² (3)** Byron, Shelley, Keats, and the leading essayists of their era. 1957 SPRING AND ALTERNATE YEARS.
- 23.332 VICTORIAN PROSE (3)** Study of the significant prose writings of Carlyle, Ruskin, Newman, Arnold, Pater, and others. 1956 FALL AND ALTERNATE YEARS.
- 23.333 VICTORIAN POETRY (3)** Study of the significant poems of Tennyson, Browning, Arnold, Rossetti, Swinburne, and others. 1957 SPRING AND ALTERNATE YEARS.
- 23.334 THE ENGLISH NOVEL¹ (3)** The English novel in the 18th century. Selected novels by Defoe, Richardson, Fielding, Smollett, Sterne, and Walpole. 1957 FALL AND ALTERNATE YEARS.
- 23.335 THE ENGLISH NOVEL² (3)** The English novel during the 19th century. Selected novels by Scott, Austen, Thackeray, Dickens, and others. 1956 SPRING AND ALTERNATE YEARS.
- 23.336 MODERN ENGLISH LITERATURE (3)** English literature from 1900 to the present. Emphasis upon writers whose work reflects the main currents of modern thought. 1956 SUMMER.
- 23.360 AMERICAN LITERATURE¹ (3)** Survey of the literature from the colonial period to about 1860. *Prerequisite*, 23.221 or 23.231. 1956 SPRING AND ALTERNATE YEARS.
- 23.361 AMERICAN LITERATURE² (3)** American literature from the middle of the 19th century to about 1920. *Prerequisite*, 23.221 or 23.231. FALL.
- 23.362 MODERN AMERICAN LITERATURE (3)** Literature since 1900, with special attention to the period since 1920. *Prerequisite*, 23.361 or permission of the instructor. SPRING.
- 23.370 ADVANCED VOICE IMPROVEMENT (3)** For persons whose professional success depends upon more than adequate speech. Recordings, individual voice analysis, personalized voice exercises, and diction. *Prerequisite*, 23.170 or 23.270, or permission of department chairman. Fee, all students, \$5. FALL.
- 23.371 PUBLIC SPEAKING: ADVANCED (3)** Speech organization and delivery. Practice in speech writing, heckling, and impromptu techniques. Speech types are discussed and presented by the students. *Prerequisite*, 23.270. SPRING.

- 23.372 **ACTING¹ (3)** Fundamentals of acting, including pantomime and body control. 1957 FALL AND ALTERNATE YEARS.
- 23.373 **ACTING² (3)** The interpretation and presentation of roles from classic and contemporary drama. Emphasis is placed on styles of acting. 1958 SPRING AND ALTERNATE YEARS.
- 23.374 **HISTORY OF THE THEATER¹ (3)** Development of the theater as an institution to the 18th century, with attention to the dramatic literature of each period. 1957 FALL AND ALTERNATE YEARS.
- 23.375 **HISTORY OF THE THEATER² (3)** Survey of the theater from the 18th to the 20th century, with attention to representative dramatic literature. Individual research on selected trends. 1958 SPRING AND ALTERNATE YEARS.
- 23.400 **GOVERNMENT REPORT WRITING (3)** Writing reports, memoranda, letters, administrative orders, and other forms of communication in government administration. Not offered 1956-1957.
- 23.401 **CREATIVE WRITING WORKSHOP¹ (3)** Principles of short story writing. Analysis of current stories. Stories written under the supervision of the instructor. *Prerequisite, permission of instructor.* 1956 FALL AND ALTERNATE YEARS.
- 23.402 **CREATIVE WRITING WORKSHOP² (3)** The completed story and problems of revision. Scene and plot construction and characterization with attention to psychological and sociological elements. *Prerequisite, 23.401.* 1957 SPRING AND ALTERNATE YEARS.
- 23.405 **WRITING OF SPEECHES (3)** Methods of preparing effective speeches for delivery by oneself or by others. Primarily for persons considering careers in politics, government, business or professional management, public relations, and radio or television. Not offered 1956-1957.
- 23.420 **CONTINENTAL FICTION (3)** 19th century fiction of authors such as Stendhal, Balzac, Zola, Flaubert, Turgenyev, Dostoevski, Gautier, Manzoni, France. *Prerequisite, 23.221, 23.231 or permission of instructor.* SUMMER.
- 23.421 **MODERN EUROPEAN FICTION¹ (3)** Introduction to problems and their solutions in the art of fiction as practiced in our time, by concentration upon the work of its most significant representatives. *Prerequisite, 23.221.* 1956 FALL.
- 23.422 **MODERN EUROPEAN FICTION² (3)** Emphasis on the work of James Joyce. *Prerequisite, 23.421.* 1957 SPRING.
- 23.430 **CHAUCEY¹ (3)** Introduction to the reading of Chaucer's poetry. Chaucer as man and poet and his 14th century background. Readings in *The Canterbury Tales*. 1957 FALL AND ALTERNATE YEARS.
- 23.431 **CHAUCEY² (3)** Readings in *The Canterbury Tales*, *Troilus and Criseyde*, and some of the minor poems. *Prerequisite, 23.430.* 1958 SPRING AND ALTERNATE YEARS.
- 23.434 **MILTON (3)** Readings in the major and minor poems with special attention to *Paradise Lost*. Some readings in his prose works. 1957 FALL AND ALTERNATE YEARS.
- 23.435 **JOHNSON (3)** Johnson as a leading man of letters in the 18th century. Readings in *Life of Johnson* and in the work of some of Johnson's contemporaries. 1958 SPRING AND ALTERNATE YEARS.
- 23.470 **PROBLEMS OF THE PROFESSIONAL SPEAKER (3)** Practical course for lawyers, teachers, and ministers designed to obtain the maximum use of the speaking voice in addressing groups. Stress on the communication of ideas, voice production, diction, scripture interpretation. Recordings and individual voice analysis. Fee, all students, \$5. SPRING.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

- 23.500 **PRINCIPLES OF LINGUISTICS (3)** Linguistic method, modern linguistic theory, problem of language structure, historical and comparative methods, dialect geography. FALL.
- 23.504 **MODERN AMERICAN ENGLISH (3)** Regional and social varieties of American English, with principle interest in dialect geography. SPRING.
- 23.510 **TEACHING OF ENGLISH AS A FOREIGN LANGUAGE (3)** Methods of teaching English as a foreign language, application of modern linguistics research, development of teaching materials, observation of classes in the American Language Center. SUMMER.
- 23.520 **NINETEENTH CENTURY LITERATURE¹ (3)** Comparative study of literature in the romantic tradition in England and America, poetry and prose. FALL.
- 23.521 **NINETEENTH CENTURY LITERATURE² (3)** Comparative study of literature in the realist tradition in England and America, poetry and prose. SPRING.
- 23.523 **COMPARATIVE LITERATURE¹ (3)** Comparative study of the writings of Herder, Rousseau, Schiller, Pushkin, Novalis, Chateaubriand, Tolstoi. FALL.
- 23.524 **COMPARATIVE LITERATURE² (3)** Comparative study of the writings of Nietzsche, Ibsen, Hauptmann, Thomas Mann, Herman Hesse. SPRING.
- 23.525 **RENAISSANCE LITERATURE (3)** Literature of the Renaissance in Italy, France, England, exclusive of drama, with emphasis upon the literature of the Tudor period in England. SUMMER.
- 23.532 **SHAKESPEARE¹ (3)** The earlier plays, with attention to the development of Shakespeare's artistry, his use of sources, the social and political backgrounds. FALL.
- 23.533 **SHAKESPEARE² (3)** The later plays. SPRING.
- 23.564 **NOVEL IN AMERICA (3)** Development of the novel 1830-1930, as exemplified in works chosen for historical or aesthetic importance. 1957 FALL AND ALTERNATE YEARS.
- 23.565 **POETRY IN AMERICA (3)** Major figures in American poetry, with special attention to the period since 1914. 1958 SPRING AND ALTERNATE YEARS.
- 23.799 **THESIS SEMINAR IN ENGLISH (3-6)**

Geology and Geophysics

Professor: ROBERT STONELEY (Visiting, 1955-1956). *Associate Professor:* EDGAR BOWLES (in charge of geology and geophysics programs). *Professorial Lecturer:* GEORGE SWITZER. *Lecturers:* ALVIN G. MCNISH; ROY OLTMAN.

Degree Programs

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Science. See page 62 for information concerning requirements for the degree of Bachelor of Science with major in distributed sciences.

University Requirements 38-43 hours

Students majoring in geology are advised to complete 65.201 Introduction to Anthropology, and either 15.110-111 General Chemistry¹ and ² (8) or 27.110 Physical Geology (4) and 27.111 Historical Geology (4) as part of their University requirements.

Departmental Requirements—

ASSOCIATE IN ARTS

Major courses 12 hours
8 hours of this requirement may be satisfied by completion of 27.110 Physical Geology (4) and 27.111 Historical Geology (4) as part of the University requirements.

BACHELOR OF SCIENCE

Major courses 40 hours
27.110 Physical Geology (4), 27.111 Historical Geology (4), 27.300-301 Mineralogy & Crystallography¹ and ² (8), 27.400 Structural Geology (3), 27.410-411 Field Geology¹ and ² (8) and 13 other hours.

Related courses 20 hours
15.110-111 General Chemistry¹ and ² (8) and 12 additional hours.

Tool courses 6-24 hours
6 hours of mathematics are required; an additional 6 hours of mathematics and 12 hours of a modern foreign language are recommended.

Electives—

Associate in Arts.....to complete 63 hours
Bachelor of Science.....to complete 126 hours

GRADUATE PROGRAMS—The University offers no advanced degrees in geography or geophysics but graduate-level courses in these subjects may be used to meet requirements for related fields and in appropriate degree programs in other departments.

Undergraduate Courses

- 27.100 ASTRONOMY** (*formerly Earth in Space and Time*) (3) Man's place in the universe as defined by astronomical studies. The earth, solar system, stars, stellar and galactic systems. Cosmic processes, cosmic history. Demonstrations, no laboratory. *SPRING*.
- 27.110 PHYSICAL GEOLOGY** (4) Materials that constitute the earth and geologic processes that operate upon it. Natural phenomena. Field trips, laboratory assignments. 3 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. *FALL*.
- 27.111 HISTORICAL GEOLOGY** (4) Earth history and the prehuman past. Physical history, the evolution of animals and plants from their earliest beginnings to their present form. Field trips, laboratory assignments. *Prerequisite*, 27.110. 3 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. *SPRING*.
- 27.200 INVERTEBRATE PALEONTOLOGY** (4) Development of the invertebrate phyla as illustrated by fossils. Field trips, laboratory assignments. *Prerequisite*, 27.111. 2 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. 1958 *FALL AND ALTERNATE YEARS*.
- 27.202 SEDIMENTATION** (3) Principles governing the sedimentary processes. Analysis of sediments, geologic interpretations of sedimentary rocks. *Prerequisite*, 27.111. *SUMMER*.
- 27.203 STRATIGRAPHY** (4) Distribution, variation of sedimentary rocks in time and space. Field trips, laboratory assignments. *Prerequisite*, 27.202 or permission of the instructor. 2 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. 1959 *SPRING AND ALTERNATE YEARS*.
- 27.204 METALLIC ORE DEPOSITS** (3) Principles of ore deposition. Review of chief metallic ore deposits of the world. Field trips. *Prerequisite*, 27.111 or permission of the instructor. 1957 *FALL AND ALTERNATE YEARS*.
- 27.205 GEOLOGY OF THE NONMETALS** (3) Review of geologic and geographic distribution of the nonmetals, their origin, their economic importance. *Prerequisite*, 27.111 or permission of the instructor. 1958 *SPRING AND ALTERNATE YEARS*.
- 27.300 MINERALOGY & CRYSTALLOGRAPHY** ¹ (4) Origin, occurrence, basic structure of minerals. Consideration of their chemical properties, and their crystallographic form and relationships. *Prerequisite*, 15.111 *General Chemistry*. 2 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. 1958 *FALL AND ALTERNATE YEARS*.
- 27.301 MINERALOGY & CRYSTALLOGRAPHY** ² (4) Systematic identification of mineral species, practice in the identification of unknown minerals. *Prerequisite*, 27.300. 2 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. 1959 *SPRING AND ALTERNATE YEARS*.
- 27.302 GEOMORPHOLOGY** (3) Genesis, morphology, classification of land forms. *Prerequisite*, 27.110. *SUMMER*.
- 27.400 STRUCTURAL GEOLOGY** (3) Mechanics of rock deformation. Origin, development of some of the earth structures. *Prerequisite*, permission of the instructor. 1959 *SPRING AND ALTERNATE YEARS*.
- 27.405 PETROLEUM GEOLOGY** (3) Origin of petroleum; distribution geologically, geographically. Methods of geologic and geophysical exploration. Extraction, refining of petroleum. Reserves. *Prerequisite*, permission of the instructor. 1958 *FALL AND ALTERNATE YEARS*.
- 27.410 FIELD GEOLOGY** ¹ (4) Field problems in geology and mechanics of field mapping. *Prerequisite*, permission of the instructor. 1 hour of lecture, 6 hours of field work. 1957 *FALL AND ALTERNATE YEARS*.
- 27.411 FIELD GEOLOGY** ² (4) Detailed topographic, geologic mapping of a specific area. Complete geologic report on the area assigned is required of each student. *Prerequisite*, 27.410. 1 hour of lecture, 6 hours of field work. 1958 *SPRING AND ALTERNATE YEARS*.

Graduate Courses

(500-level courses are also open to advanced undergraduates)

- 27.516 OPTICAL MINERALOGY** (4) Consideration of optical properties of minerals studied under polarized light. Identification of minerals in thin-sections. *Prerequisite*, 27.301. 2 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$10. 1957 *FALL AND ALTERNATE YEARS*.
- 27.517 PETROLOGY & PETROGRAPHY** (4) Origin, geologic relationships, identification of typical rocks, with emphasis on those of igneous and metamorphic origin. Identification of rocks in thin-sections. *Prerequisite*, 27.516. 2 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$10. 1958 *SPRING AND ALTERNATE YEARS*.
- 27.550 PHYSICS OF THE INTERIOR OF THE EARTH** (3) Introduction to geophysics. Dynamical, astronomical, gravitational, thermal, seismological, magnetic aspects. *Prerequisite*, calculus. *FALL*.
- 27.556 GEOMAGNETISM** (2) Geomagnetic measurements. Phenomenology of main field and secular, diurnal, and disturbance variation fields. Mathematical analysis of main and variation fields. Application of statistical techniques. *Prerequisite*, calculus, electricity and magnetism. 1957 *FALL AND ALTERNATE YEARS*.

- 27.560 HYDROLOGY (3)** Groundwater infiltration phenomena. Surface waters, runoff, waves in rivers, transport of solids, ripple formation, density currents, wind action on lakes. Evaporation. Snow, ice, and glaciers. *Prerequisite*, permission of the instructor. 1957 FALL AND ALTERNATE YEARS.
- 27.571 TECTONOPHYSICS (2)** Physical laws governing rock deformation. Stress and strain relationships as exemplified by crystal structures. *Prerequisite*, permission of the instructor. 1958 SPRING AND ALTERNATE YEARS.
- 27.576 VOLCANOLOGY (2)** Interpretation of volcanic phenomena. *Prerequisite*, permission of the instructor. 1958 FALL AND ALTERNATE YEARS.
- 27.580 METEOROLOGY (3)** Causes of weather phenomena. Climatic zones and causes of climatic variation. *Prerequisite*, permission of the instructor. 1958 FALL AND ALTERNATE YEARS.
- 27.587 OCEANOGRAPHY (3)** Physical control of ocean tides, currents, wave action. Distribution of temperatures and light. *Prerequisite*, permission of the instructor. 1959 SPRING AND ALTERNATE YEARS.
- 27.610 THEORETICAL SEISMOLOGY (3)** Origin, nature, transmission of waves. *Prerequisite*, 27.550 or equivalent. 1958 SPRING AND ALTERNATE YEARS.
- 27.661 MOVEMENTS OF UNDERGROUND WATER (3)** Phenomena relating to continuous and discontinuous migrations of ground water. *Prerequisite*, 27.560 or equivalent. 1958 SPRING AND ALTERNATE YEARS.

Government and Public Administration

Professors: GEORGE P. BUSH; HAROLD E. DAVIS; LOWELL H. HATTERY; ERNST POSNER; SAMUEL L. SHARP; CATHERYN SECKLER-HUDSON (Chairman). *Adjunct Professors:* PAUL CAMP; HELEN L. CHATFIELD; FRANKLIN G. CONNOR; WILLIAM E. DEWEY; WILLIAM R. DEVINE; CHARLES H. GOODMAN; HAROLD F. GOSNELL; W. BROOKE GRAVES; CLIFTON E. MACK; ARNOLD MILES; FRITZ MORSTEIN MARX; ELI E. NOBLEMAN; S. MCKEE ROSEN; ROLLAND D. SEVERY; OLIVER C. SHORT; O. GLENN STAHL; JAMES D. TELLER; CARL TILLER; R. R. ZIMMERMAN. *Associate Professors:* WILLIAM E. BIGGS; CHARLES M. HERSH; HAROLD H. ROTH. *Assistant Professors:* CHESTER EARL; ROBERT E. GOOSTREE; EMMET V. MITTLEBEELER; EDGAR S. ROBINSON; LOIS E. TORRENCE. *Professorial Lecturers:* RICHARD G. BROWN; JOSEPH D. COOPER; MELVIN D. DAVIDOFF; W. PHILLIPS DAVISON; NICHOLAS DE ROCHEFORT; L. L. ECKER-RACZ; ALEXANDER GEORGE; MORRIS GREENE; JOHN C. HONEY; HOWARD K. HYDE; KERIM K. KEY; MARTIN KRIESBERG; LYMAN MOORE; E. E. NAYLOR; ALDO L. RAFFA; PHILIP R. RODGERS; THEODORE R. SCHELLENBERG; JOHN C. SHOVER; HANS SPEIER; CHARLES A. ULLMANN. *Lecturers:* ROBERT BAUM; KENNETH P. BORGES; CAREY BREWER; DANIEL C. BUCHANAN; JOHN M. CLARKE; ROBERT COX; GEORGE H. DEMING; LYNN W. ELEY; WALTER O. JACOBSON; OTTO KIRCHHEIMER; JACK KOTEEN; JOHN L. MCGRUDER; LEWIS M. NIXON; HERBERT H. ROSENBERG; ELDON E. SWEETZ; GEORGE D. THOMAS.

Degree Programs

UNDERGRADUATE DEGREES—Associate in Public Administration, Associate in Arts, Bachelor of Science in Public Administration, Bachelor of Arts.

University Requirements38-43 hours

Students majoring in government or public administration are advised to complete 53.200 American Government: National (3) as a part of their University requirements.

Departmental Requirements—

ASSOCIATE IN PUBLIC ADMINISTRATION (major in financial management, personnel administration, public administration, record administration).

Major courses12-24 hours

Including 53.400 Introduction to Public Administration (3), 54.420 Organization & Management or 54.421 Administrative Organization (3).

Related courses 0-9 hours

ASSOCIATE IN ARTS (major in government)

Major courses 24 hours

Including 53.201 American Government: State & Local (3) or 53.300 American Government: Municipal (3).

BACHELOR OF SCIENCE IN PUBLIC ADMINISTRATION (majors in one or more of the following fields: history of administration, organization and management, public personnel administration, public relations in administration, public budgetary administration, record and archives administration, public law, and police administration).

Major courses	33 hours
Including 53.201 American Government: State & Local or 53.300 American Government: Municipal (3), 53.400 Introduction to Public Administration (3), and 27 additional hours at least 3 of which must be in each of the following areas: organization and management, personnel administration, budgetary administration, public relations.	
Related courses	12 hours
Advanced courses in government.	

BACHELOR OF ARTS (major in government)

Major courses	36 hours
Including 53.201 American Government: State & Local or 53.300 American Government: Municipal (3), and 30 additional hours, at least 9 of which must be in one of the following areas and at least 3 in each of the others: public law, governmental processes, political theory, comparative government and politics, public administration, and research methods.	
Related courses	12 hours
3 hours of advanced work in each of the following areas: economics, history, international relations and organization, and sociology and anthropology.	

Electives—

Associate in Public Administration.....	to complete 63 hours
Associate in Arts.....	to complete 63 hours
Bachelor of Science in Public Administration.....	to complete 126 hours
Bachelor of Arts.....	to complete 126 hours

GRADUATE DEGREES—Master of Arts and Doctor of Philosophy in government and in public administration.

MASTER OF ARTS

Course Requirements: Minimum of 30 hours of approved graduate work, 6 hours of which may be in 54.692 Public Administration-Case Study Research (6) or 54.799 Thesis Seminar-Government & Public Administration (3-6).

Written Comprehensive Examinations: For the degree in government—3, including one in the general area of government in the U.S.; one in a specialized aspect of that area; and one in political institutions and theory, comparative government and administration, public administration in the U.S., or a related field. For the degree in public administration—3, including one in national, state, or municipal government or in social psychology; and two selected from the fields of federal budgetary administration, organization and management, public personnel administration, public relations in administration, archives administration, or another appropriate field of administration.

Other Requirements: Thesis or an approved case study report in lieu of thesis.

DOCTOR OF PHILOSOPHY

Course Requirements: Minimum of 72 hours of approved graduate work, at least 30 of which must be completed in residence at The American University.

Written Comprehensive Examinations: For the degree in government—5, including one in the general area of government in the U.S. and one in a specialized field of this area; one in political institutions and theory or comparative governments and comparative administration in the U.S.; one in public administration in the U.S.; and one in a related field. For the degree in Public Administration—5, including one in the area of government in the U.S.; three in fields in the area of public administration; and one in the field of economic or political theory or a related field.

Other Requirements: Proficiency examinations in two research tools (accounting, languages, statistics), thesis and oral examination on thesis, and (for the degree in public administration) completion of an approved case study report.

Undergraduate Courses

- 53.200 AMERICAN GOVERNMENT: NATIONAL (3)** Basic principles of the Federal Government; legislative, executive, administrative, judicial organization and functioning; citizenship, elections, political parties, interest groups; current activities, problems. SUMMER. FALL. SPRING.
- 53.201 AMERICAN GOVERNMENT: STATE & LOCAL (3)** Constitutional basis, organization, functioning of state and local government; political parties and popular control; interrelationships of states and their subdivisions; the governor and state administration. SUMMER. FALL. SPRING.
- 53.300 AMERICAN GOVERNMENT: MUNICIPAL (3)** Study of the organization of urban government in the U. S. Special emphasis on the adequacy of municipal governments to perform essential services. SUMMER. FALL. SPRING.
- 53.360 GOVERNMENT & THE PEOPLE (3)** Introduction to the political dynamics of democracy. Policy formulation and the various channels of citizen representation. Governmental public relations, reporting, response to political activity. SUMMER. FALL. SPRING.
- 53.370 COMPARATIVE GOVERNMENT (3)** Comparative analysis of the principal features of government and politics in leading nations. Democratic and totalitarian executive, parliamentary, judicial, party systems are evaluated. SUMMER. FALL. SPRING.
- 53.400 INTRODUCTION TO PUBLIC ADMINISTRATION (3)** Basic survey of the processes of public administration; personnel, organization, budgeting, use of administrative powers, public relations. Emphasis on principles, literature, problems and issues, application. FALL. SPRING.
- 53.420 EVOLUTION OF POLITICAL INSTITUTIONS (3)** Analysis of the evolution, existing nature, trends of major political institutions and concepts. Emphasis on the development and present character of American politics. SUMMER. FALL. SPRING.
- 54.410 PUBLIC BUDGETING (3)** Descriptive and analytical study of public budgeting in the U. S. Differing characteristics of federal, state, local systems. Processes and problems involved. SUMMER. FALL. SPRING.
- 54.420 ORGANIZATION & MANAGEMENT (3)** Systematic study of principles and processes involved in organizing and managing large and complex establishments; evaluating an organization. Issues, trends. Practical application and illustration. SUMMER. FALL. SPRING.
- 54.421 ADMINISTRATIVE ORGANIZATIONS (3)** Development, present structure and function of administrative organization in the federal government. Overhead management; departmental system; the field service; continuing problems of administrative reorganization. FALL. SPRING.
- 54.440 MANAGEMENT OF GOVERNMENT RECORDS (3)** Basic course in the field. Topics include history, organization, function of record offices and archival agencies; origin and nature of documentary material; reference service. *Prerequisite, permission of the instructor.* FALL.
- 54.441 ORGANIZATION & PROCEDURE FOR HANDLING GOVERNMENT RECORDS (3)** Examination of performance of record function in government agencies through organization and procedure in various offices of origin as well as on agency-wide basis. *Prerequisite, 54.440 or record work experience.* SPRING.
- 54.442 ARRANGEMENT, CLASSIFICATION, INDEXING OF GOVERNMENT RECORDS (3)** Organization of reference units; systems of arrangement, classification, coding; preparation of indexes, other finding aids. *Prerequisite, 54.440 or record work experience.* FALL.
- 54.443 MANAGEMENT OF SPECIAL TYPES OF GOVERNMENT RECORDS (3)** Consideration of special types of government records in relation to problems they cause in record keeping such as personnel, accounting, public relations, statistics. *Prerequisite, 54.440 or record work experience.* SPRING.
- 54.450 INTRODUCTION TO PUBLIC PERSONNEL ADMINISTRATION (3)** Historical development of public personnel administration at the national level; examination of structure, principles, major procedures; relationships of personnel to other staff and line elements. SUMMER. FALL. SPRING.
- 54.451 SUPERVISION IN PUBLIC ADMINISTRATION (3)** Development of supervisory relationships in management with emphasis on human relations; supervisory functions; areas of supervisory action; methods, tools of supervision; present problems, trends. FALL. SPRING.

- 54.498 **WASHINGTON SEMESTER: SEMINAR IN GOVERNMENTAL PROCESSES (3)** For advanced students from the University and cooperating institutions. Study of government in action. Reports, conferences, lectures, visits to governmental agencies. Guided evaluation of experience. FALL. SPRING.
- 54.499 **WASHINGTON SEMESTER: INDIVIDUAL PROJECTS (3)** Analytical reports prepared in consultation with advisers on a particular governmental problem or agency. For advanced students from the University and cooperating institutions. FALL. SPRING.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

BASIC COURSES

- 53.500 **THE PROCESS OF GOVERNMENT IN THE U. S. (3)** Intensive study of American government in action. Special emphasis on constitutional bases; organization, operation, procedure; political dynamics; current problems. *Prerequisite, graduate standing.* SUMMER. FALL. SPRING.
- 53.501 **PRINCIPLES & PROCESSES OF PUBLIC ADMINISTRATION (3)** Basic survey of the processes of public administration: personnel, organization, budgeting, use of administrative powers, public relations. Emphasis on principles, literature, problems, issues, application. *Prerequisite, graduate standing.* Not open to students who have completed 53.400. SUMMER. FALL. SPRING.
- 53.502 **EVOLUTION OF PUBLIC ADMINISTRATION (3)** Comparative study of development of administrative processes and institutions. Emphasis on the executive branch; differentiation of functions into departments; growth of the civil service. SPRING.
- 53.504 **TECHNOLOGY & ADMINISTRATION (3)** Technological and scientific development in materials, equipment, production, transportation and communication. Significance for planning, personnel, fiscal, other management processes. Analysis of implications of the "electronic age." SPRING.
- 53.505 **TECHNOLOGICAL CHANGE & THE SOCIAL ORDER (3)** Consideration of interrelated social change. Role, objectives, methods of major institutions; case studies to illustrate impact of technological development on government; implications for internationalism. SPRING.
- 53.507 **RESEARCH METHODS IN GOVERNMENT & PUBLIC AFFAIRS (3)** Description and evaluation of research methods used in the study of government. Concepts, techniques of traditional methods, situational analysis, measurement, research strategy, reporting. SUMMER. FALL. SPRING.
- 53.508 **DEVELOPMENT OF FEDERAL ADMINISTRATIVE INSTITUTIONS IN THE U. S. (3)** Origins and growth of federal administrative institutions; administrative problems encountered; impact of personalities; developing concepts and practices of public management. FALL.

POLITICAL THEORY

- 53.520 **EARLY POLITICAL THEORY (3)** Analysis of contributions of political thinkers and movements from Plato through the middle ages. Emphasis on the ideological background of western civilization and political science. FALL.
- 53.521 **MODERN POLITICAL THEORY (3)** Examination of contributions of political thinkers from Machiavelli to the present. Emphasis on the concept of the state and its relation to culture and society. SUMMER. FALL. SPRING.
- 53.525 **AMERICAN POLITICAL THEORY (3)** Development and significance of political ideas that have influenced the institutional growth of the American system of government, with special emphasis on the 20th century. FALL. SPRING.
- 53.620 **CONTEMPORARY IDEOLOGICAL ISSUES (3)** Relationship of individual to modern government; ethics of civic behavior; political morality and personal ethics. *Prerequisite, a course in political theory or permission of the instructor.* FALL.
- 54.720 **ADVANCED POLITICAL THEORY (3)** For advanced graduate students interested in reading original treatises in the field of political theory, with individual guidance by the instructor. SUMMER. FALL. SPRING.

GOVERNMENTAL PROCESSES

- 53.530 **THE LEGISLATIVE PROCESS (3)** Analysis of lawmaking bodies. Emphasis on evolution of their functions, methods, procedures; relationships with Executive Office of the President, administrative agencies, judiciary; problems, trends. SUMMER. FALL.
- 53.531 **THE NATIONAL EXECUTIVE (3)** Analytical and historical study of the American Presidency as an institution of government. Formal and informal objectives, authority, powers; organization; operating techniques; public relations. FALL.
- 53.532 **THE JUDICIAL PROCESS (3)** Nature of the judicial process; organization, jurisdiction of courts; review of civil and criminal procedure; judicial review; selection of judges. Relation to legislative, administrative branches. SPRING.
- 53.533 **LEGISLATIVE-ADMINISTRATIVE RELATIONSHIPS (3)** Analysis of relationships between legislative and administrative processes of federal government. Problems involved; limitations and potentialities of cooperative relationships in a democracy. SUMMER. SPRING.

- 53.534 INTERGOVERNMENTAL RELATIONSHIPS (3)** Exploration of the relationships between the several units of government and between headquarters and the field offices. Emphasis on current issues, trends. SUMMER. SPRING.
- 53.535 FORMATION OF PUBLIC POLICY (3)** Workshop for the study of formal and informal influences which condition the development and execution of public policy. Practical illustrations and case work. SUMMER. FALL. SPRING.
- 53.631 DESIGN OF LEGISLATION (3)** Workshop in research and draftsmanship involved in the preparation of bills for introduction into Congress. Detailed study of the theory and mechanics of federal legislation. SPRING.
- 53.632 PROBLEMS OF LEGISLATION & LAW-MAKING (3)** Analysis of problems peculiar to the American law-making process. Relationships with Executive Branch, government agencies, public. Practical applications. SPRING.
- 53.730 SEMINAR IN AMERICAN GOVERNMENT: ADVANCED PROBLEMS (3)** For advanced students interested in special research projects in the field of American government. SPRING.

PUBLIC LAW

- 53.536 GOVERNMENT REGULATION OF BUSINESS (3)** Constitutional basis for regulation of business; methods of regulation of commerce, transportation, monopolies, unfair competition, trade practices, labor relations, security exchanges, agriculture, production, price-fixing. FALL.
- 53.550 ELEMENTS OF JURISPRUDENCE (3)** Principal theories of the nature and force of law; scientific method in law. Relation of the law to other modern social institutions. FALL.
- 53.551 COMPARATIVE LEGAL INSTITUTIONS (3)** Development and growth of legal agencies since primitive times. Interrelations between law and government. Early legal institutions of Europe and their influence on the modern judicial system. SPRING.
- 53.552 ADMINISTRATIVE LAW (3)** General nature of administrative law; types of administrative action and enforcement; analysis of rule-making and adjudication; administrative due process; judicial review. *Prerequisite*, 53.200. SPRING.
- 53.555 CONSTITUTION OF THE U. S.: DEVELOPMENT (3)** Bases of constitutional government, judicial exposition of principles of constitutional government from the Constitutional Convention to the Reconstruction period. Growth of federal system, powers and limitations. SUMMER. FALL.
- 53.556 CONSTITUTION OF THE U. S.: INTERPRETATIONS (3)** Major trends in constitutional interpretation since the Reconstruction, with emphasis on changing nature of the federal system, relation of public and private interests. SUMMER. SPRING.
- 54.750 SEMINAR IN U. S. PUBLIC LAW (3)** Advanced seminar for graduate students interested in special research projects in the field of U. S. public law. SPRING.

POLITICAL DYNAMICS

- 53.503 THE PUBLIC & ADMINISTRATION (3)** Nature, significance of administration in modern democracy. Pressure groups; interaction between the public and administration; clientele government; responsible executive coordination. Case studies. FALL. SPRING.
- 53.560 PUBLIC OPINION (3)** Concepts of public opinion, propaganda; their formation and role in democratic society; measurement and evaluation of public opinion and propaganda. SUMMER. FALL.
- 53.561 PUBLIC OPINION MEASUREMENT (3)** Methods of measuring public opinion; polling methods; questionnaire construction, sampling, interviewing, analysis of returns; content analysis of mass communications; conducting research on radio and motion pictures. SPRING.
- 53.562 POLITICAL PARTIES & ELECTORAL PROBLEMS (3)** Analysis of party processes in formal government. Party organization; politicians, political leaders; human nature in politics; spoils system; nominating systems, campaign methods; elections; issues, trends. SUMMER. FALL. SPRING.
- 53.563 PRESSURE GROUPS & PROPAGANDA (3)** Methods and techniques of informal control in politics and administration. Group pressures; media of communication; propagandist activity; factors conditioning public opinion; problem areas. SUMMER. SPRING. FALL.
- 53.564 POLITICAL BEHAVIOR (3)** Intensive analysis of human behavior in the political process. Political power, leadership, the role of organization, citizen political activity. Evaluation of recent political behavior research. SUMMER. FALL. SPRING.
- 53.565 PARTICIPATION IN POLITICS (3)** Effective citizen participation in politics with emphasis upon practical techniques. Campaigns in process; from local party organization to elections. Citizen participation in public policy formulation. SPRING.
- 53.566 COMPARATIVE POLITICAL PARTIES (3)** Comparative analysis of the political party systems of Europe and other principal countries. SUMMER. FALL. SPRING.
- 53.567 GOVERNMENTAL REPORTING (3)** Reporting by government to citizens in a democracy. Theory, limitations, media, formal and informal, evaluation; improvement in governmental reporting. Federal, state, local jurisdictions. FALL.
- 53.660 INTERNATIONAL POLITICAL COMMUNICATION (3)** Psychological aspects of foreign policy and role of communication. Problems presented by use of propaganda media of international communication in the service of national policy. FALL.
- 53.661 FIELD STUDY IN PUBLIC OPINION & PRESSURE GROUPS (3)** Supervised field projects in conducting opinion surveys and behavioral studies. FALL.
- 54.740 SEMINAR IN POLITICAL DYNAMICS (3)** Advanced seminar for graduate students interested in special research projects in the field of political dynamics. SPRING.

COMPARATIVE GOVERNMENT AND POLITICS

- 53.570 GOVERNMENT & POLITICS OF WESTERN EUROPE (3)** Comparative analysis of the political systems of Great Britain, France, Switzerland, Scandinavia; evolution and current operation; trends, problems of political reorganization. SUMMER. FALL. SPRING.
- 53.571 GOVERNMENT & POLITICS OF CENTRAL EUROPE (3)** Comparative analysis of the political systems of central Europe. The breakdown of democracy and the rise of dictatorship. Current problems and trends in modern government. SPRING.
- 53.572 GOVERNMENT & POLITICS OF EASTERN EUROPE (3)** History, philosophy of political institutions in Poland, Czechoslovakia, Yugoslavia, Bulgaria, Hungary, Rumania. Theory and practice. Influence of Soviet theory and interests. Trends, prospects. SUMMER. FALL.
- 53.573 GOVERNMENT & POLITICS OF THE SOVIET UNION (3)** Basic theories of communism; evolution of the Soviet system; organization, operation of Soviet Government; relationships with political systems of eastern European satellites. SUMMER. FALL.
- 53.574 GOVERNMENT & POLITICS OF THE FAR EAST (3)** Development, organization, functions of government; ideological growth in China, Japan, Philippines, Thailand, Burma, India, Pakistan. Economic, political, cultural, regional relationships. FALL.
- 53.575 GOVERNMENT & POLITICS OF LATIN AMERICA (3)** Factors influencing political life, constitutions and constitutional issues; federal and unitary states, the presidency, legislatures, judiciary, political parties, electoral systems; budgets; trends in legislation. SUMMER. SPRING.
- 53.576 GOVERNMENT & POLITICS OF THE BRITISH COMMONWEALTH (3)** Constitutional basis of the United Kingdom. Political relationships, trends. SPRING.
- 53.577 PROBLEMS OF GOVERNMENT IN GREAT BRITAIN & FRANCE (3)** British, French experience with representative problems of government. Economic planning and controls; nationalization of industry; social services and the welfare state, political ideology, trends. SPRING.
- 53.578 POLITICAL LEADERSHIP IN LATIN AMERICA (3)** Representative Latin American statesmen and leaders of thought; their historical background as a basis for the analysis of problems of political leadership. SUMMER. SPRING.
- 54.593 GOVERNMENT & POLITICS OF THE MIDDLE EAST (3)** Analysis of political institutions and problems of the Middle East. Countries studied include Afghanistan, Iran, the Arab states, Israel, Turkey. SPRING.
- 54.596 PROBLEMS IN FAR EASTERN GOVERNMENT (3)** Nationalism, representative government, political leadership, party organization, elections, disunity, minorities in Indonesia. Malaya, Vietnam, Ceylon, India, Pakistan, Burma, China, Japan, Korea, the Philippines. SPRING.
- 54.597 GOVERNMENT & POLITICS OF MODERN AFRICA (3)** Intensive study of political problems, institutions, movements, trends in contemporary Africa. FALL.
- 53.679 SEMINAR IN PROBLEMS OF GOVERNMENT IN COMMUNIST COUNTRIES (3)** Selected problems relating to government institutions in the Soviet Union and Soviet "orbit." Techniques of acquisition of power, constitutionalism in revolutionary situations, tensions in Communist-dominated countries. SPRING.
- 54.770 SEMINAR IN COMPARATIVE GOVERNMENT (3)** Advanced seminar for graduate students interested in special research projects in the field of comparative government. SUMMER.

STATE AND LOCAL GOVERNMENT

- 53.580 CURRENT PROBLEMS IN STATE & LOCAL GOVERNMENT (3)** Trends and issues in states and municipalities; problems of coordination in the American federal system. FALL.
- 53.581 COMPARATIVE LOCAL GOVERNMENT & ADMINISTRATION (3)** Comparative study of local governments in Great Britain, France, Italy, Belgium, the Netherlands, Switzerland, countries occupied after World War II. Emphasis on contemporary situation. SPRING.
- 53.585 LOCAL GOVERNMENT PLANNING (3)** Problems involved in developing, executing planning in urban communities. Composite essentials, obstacles. Tasks of administration. SPRING.
- 53.586 CITY MANAGEMENT IN THE U. S. (3)** Principles, practices of administering governmental functions in urban life. Emphasis on the administrator; modern concepts, methods of administration; current problems; trends. FALL.
- 53.587 MUNICIPAL FINANCIAL ADMINISTRATION (3)** Current developments in administration of fiscal functions in American cities, including budgeting, treasury management, accounting, auditing. Problems, trends. FALL.
- 53.588 GOVERNMENT & ADMINISTRATION OF METROPOLITAN WASHINGTON (3)** Government of metropolitan Washington and its adequacy in meeting social, economic, political problems and issues of the community. Comparative analysis with other metropolitan administrations. FALL.
- 53.589 PROBLEMS OF MUNICIPAL GOVERNMENT (3)** Administrative, organizational, political problems of municipal governments today. Case histories, suggested solutions, current thinking, practice, trends. Variations in cities according to size. SPRING.
- 54.780 SEMINAR IN MUNICIPAL GOVERNMENT & ADMINISTRATION (3)** Advanced seminar for graduate students interested in special research projects in the field of municipal government and administration. SPRING.

POLICE ADMINISTRATION

- 55.500 POLICE INVESTIGATION (3)** Principles, methods, procedures in the investigation of crimes; recognition, evaluation, preservation of evidence; search, observation, surveillance and interrogation. FALL.

- 55.501 ACCIDENT INVESTIGATION (3)** Principles, methods, procedures in the investigation of accidents; recording, use of data. **SPRING.**
- 55.502 TRAFFIC REGULATION (3)** Organization for traffic regulation; traffic problems and trends; traffic law; traffic surveys; handling special events, other traffic problems; training police for traffic control. **FALL.**
- 55.503 CRIMINALISTICS (3)** Scientific analysis and identification of evidence; identification of documents; special police techniques; interpretation of medical reports; preparation of reports. **FALL.**
- 55.504 POLICE LAW & EVIDENCE (3)** Elements of police law; interpretation of the penal code; criminal procedure in the courts; kinds, degrees and rules of evidence: admissibility, competence, weight, presumptions, privileged communications, hearsay, *corpus delicti*. **SPRING.**
- 55.505 POLICE ADMINISTRATION (3)** Examination and evaluation of structure, principles, processes of criminal enforcement administration in the U. S. Constitutional problems, other approaches. Emphasis on local organization. **FALL.**

BUDGETARY ADMINISTRATION AND FISCAL POLICY

- 54.510 BUDGETING: AN INSTRUMENT OF PLANNING & MANAGEMENT (3)** Theory and principles of budgeting. Evolution of federal budgetary administration; relationships to fiscal policy and the national economy; problems and current trends. *Prerequisite, a course in administration or experience in budgeting.* **SPRING.**
- 54.511 FEDERAL BUDGETARY PROCEDURE (3)** Processes and procedures in federal budgetary administration from the operating viewpoint. Preparation, justification of budget estimates; budget execution; techniques of agency budgeting. *Prerequisite, a course in administration or experience in budgeting.* **FALL.**
- 54.512 FEDERAL FISCAL ISSUES (3)** Budgetary magnitudes in relation to full employment levels of national income problems raised by European aid, national defense, public debt, income and taxation. **SPRING.**
- 54.513 GOVERNMENTAL SUPPLY MANAGEMENT (3)** Principles, policies, methods applicable to the purchasing of supplies, materials, equipment for use in governmental agencies. Relationship of supply management to administrative management. *Prerequisite, a course in administration or experience in purchasing.* **SPRING.**
- 54.514 PROBLEMS OF ACCOUNTING IN THE FEDERAL GOVERNMENT (3)** Federal fiscal administration with emphasis on the role of governmental accounting. Progress toward improving accounting systems; major problems; relationship to budgetary management and fiscal policy. *Prerequisite, a course in accounting or experience in the field.* **SPRING.**
- 54.515 COMPTROLLERSHIP & PUBLIC BUDGETING (3)** Unique problems of government; institutional setting; organization; functions; operational relationships; problems; implementation of comptrollership; trends. **SUMMER. FALL.**
- 54.516 GOVERNMENT PURCHASING & CONTRACTING (3)** Principles, practices of purchasing and contracting in government. Competitive methods; relationship of specifications and bid evaluation; commodities, sources; contracting methods. Unique problems of government. *Prerequisite, a course in administration or experience in purchasing.* **FALL.**
- 54.610 PROBLEMS IN PUBLIC BUDGETING (3)** Trends, problems, issues in public budgeting. *Prerequisite, a basic course in budgeting or experience in the field.* **SUMMER. FALL. SPRING.**
- 54.710 SEMINAR IN BUDGETARY ADMINISTRATION (3)** Advanced seminar for graduate students interested in special research projects in the field of federal budgetary administration. **SUMMER. FALL. SPRING.**

ORGANIZATION AND MANAGEMENT

- 54.520 PSYCHOLOGY OF MANAGEMENT (3)** Study, application of psychological principles pertinent to modern administrative management. Significance of understanding individual and group behavior, abilities, attitudes. **FALL.**
- 54.521 HUMAN RELATIONS IN PUBLIC MANAGEMENT (3)** Application of principles of scientific method to human relations in work situations. Examination of recent research in the field; discussion concerning practical application to administrative organizations. **FALL.**
- 54.522 HUMAN RELATIONS: PROBLEM SOLVING IN PUBLIC MANAGEMENT (3)** Application of the scientific method to specific problems and cases. **SPRING.**
- 54.523 DEVELOPMENT OF SCIENTIFIC MANAGEMENT (3)** Evolution of scientific management; contributions of Taylor, Gantt, Gilbreth, Emerson, Barth, others. Application in public administration. Philosophy of scientific management; significance and trends. **FALL.**
- 54.524 COMPARATIVE PUBLIC ADMINISTRATION (3)** Administrative process in Great Britain, France, Italy, Belgium, the Netherlands, Switzerland, and occupied countries of Europe with particular emphasis on recent developments. **SUMMER. SPRING.**
- 54.525 PLANNING IN GOVERNMENT (3)** Theory, purpose of planning in government at policy and operating levels. Emphasis on program planning; accomplishments, limitations; some comparative study of planning at local government levels. **FALL.**
- 54.526 OFFICE MANAGEMENT & CONTROL (3)** Principles of management applicable to office situations. Office supervision; correspondence systems; space requirements; allocation; training personnel. **SUMMER. FALL. SPRING.**

- 54.527 WORK SIMPLIFICATION & WORK MEASUREMENT (3)** Possibilities, limitations of work simplification. Development of standards of measurement; uses of work measurement data; merits, relationship of work simplification and work measurements. SUMMER. FALL.
- 54.528 PRODUCTION PLANNING & CONTROL (3)** Principles of production planning and control in government. Planning flow of paper work, controlling flow of work, quality of work, adjusting for human factors. SUMMER. SPRING.
- 54.529 THE GOVERNMENT & NATIONAL DEFENSE (3)** Role of the military in government. Defense organization and policy formulation; political and economic impact of the "Cold War." Basic theory, problems, trends. SPRING.
- 54.530 ADMINISTRATION OF RESEARCH ACTIVITIES IN GOVERNMENT (3)** Principles and processes of administration as applied to governmental research activities. Consideration of unique problems in research administration. FALL.
- 54.531 MANAGEMENT PROBLEMS OF INTERNATIONAL AGENCIES (3)** Peculiar problems of management in international agencies. Staffing, budgeting, planning, authorizing, operating, directing; public relations; coordination; communication, leadership. Interpersonal relationships. The place factor. SPRING.
- 54.532 PROBLEMS IN GOVERNMENT REORGANIZATION (3)** Principal problems of structural organization of the Executive Branch; review of past and current reorganization studies and proposals; analysis of means for effectuating needed organizational adjustments; evaluation of progress and prospects. *Prerequisite, permission of department chairman.* FALL. SPRING.
- 54.538 PUBLIC HEALTH ADMINISTRATION (3)** Survey, evaluation of governmental organization for health services. Select studies in trends and practice. Historical development, impact of technological factors. SPRING.
- 54.539 CASE PROBLEMS IN PUBLIC ADMINISTRATION (3)** Practical application of principles and concepts of administration to real situations. Workshop in which participants present and help solve everyday problems. FALL. SPRING.
- 54.620 ORGANIZATION & MANAGEMENT: ADVANCED (3)** Systematic study of principles and processes involved in organizing and managing large and complex establishments; evaluating an organization. Issues, trends. Practical application and illustrations. *Prerequisite, graduate standing.* FALL.
- 54.621 PSYCHOLOGY OF MANAGEMENT: ADVANCED (3)** Special case work in the application of psychological principles relating to modern administrative management. *Prerequisite, 54.520.* SPRING.
- 54.622 APPLIED ADMINISTRATIVE MANAGEMENT (3)** Seminar for administrators, operating officials, staff officers. Diagnosis of administrative ills; methods of improving administration; techniques of administrative analysis; international developments. *Prerequisite, permission of department chairman.* FALL.
- 54.624 EXECUTIVE LEADERSHIP IN GOVERNMENT (3)** Qualifications for executive leadership; identification of talent; techniques and their development. Relationship of leadership to policy formation, decision-making, operations. Patterns of organization influencing leadership. SPRING.
- 54.725 SEMINAR IN ORGANIZATION & MANAGEMENT (3)** Advanced seminar for graduate students interested in special research projects in the field of organization and management. SUMMER. SPRING.
- 54.785 SEMINAR IN RESEARCH ADMINISTRATION (3)** Advanced seminar for graduate students interested in application of administrative principles to research situations. Individual projects. SPRING.

RECORD AND ARCHIVES ADMINISTRATION

- 54.542 HISTORY & ADMINISTRATION OF ARCHIVES: BACKGROUNDS (3)** History, present state of archival activities in the principal countries of the world, especially those in the U. S.; principles, practices of archives administration. Prospective students should consult with the instructor. FALL.
- 54.543 HISTORY & ADMINISTRATION OF ARCHIVES: PRINCIPLES & TECHNIQUES (3)** Discussion of the most important phases of work with archives and manuscripts. Practical instruction in appraising, arranging records. Field trip to near-by state archival agency. *Prerequisite, 54.542 or permission of instructor.* SPRING.
- 54.640 DOCUMENTATION IN MANAGEMENT (3)** Relation of management to documentation. *Prerequisite, permission of instructor.* FALL.
- 54.641 TREATMENT OF SUBJECT MATTER IN RECORD ADMINISTRATION (3)** Analysis of the subject matter content of an agency's documentation for the purpose of formulating standard definitions and classifications for use in record administration. *Prerequisite, permission of instructor.* SPRING.

PERSONNEL ADMINISTRATION

- 54.550 PERSONNEL PSYCHOLOGY (3)** Techniques of employee selection, placement, evaluation. Aptitude and achievement tests, rating methods, interviewing; motivation and morale; problems of fatigue and efficiency, accidents, personnel rating. *Prerequisite, an introductory course in psychology, background in statistics recommended.* SUMMER. FALL. SPRING.

- 54.552 FORMULATING PERSONNEL POLICIES & PROCEDURES (3)** Fundamentals of a government personnel program. Philosophy, techniques, methods; relation of operating procedures to fundamental policy; procedures of operating officials and procedures in centralized and decentralized personnel organizations. SPRING.
- 54.553 SELECTION & PLACEMENT (3)** Selection processes and techniques, initial placement and internal placement. Emphasis on manpower utilization, inventories of skills, reduction in force. SUMMER. SPRING.
- 54.554 POSITION CLASSIFICATION (3)** Position classification as related to governmental administration as a whole. Relationship to budgeting, planning, organizing, staffing; comparative methods and plans in industry, international agencies, military services. FALL.
- 54.555 TRAINING IN THE PUBLIC SERVICE (3)** Principles, programs, practices in organizing, conducting, evaluating training programs for training and operating officials and those preparing for such responsibilities. SPRING.
- 54.556 EMPLOYER-EMPLOYEE RELATIONS IN GOVERNMENT (3)** Effective relationships between employer and employees. Objectives, methods, techniques; significance, trends. SUMMER. FALL.
- 54.557 COUNSELING IN PUBLIC MANAGEMENT (3)** General principles underlying counseling relationship. Limitations of counseling. Qualifications of counselors. Application to specific problem situations by discussion, demonstration. SPRING.
- 54.558 EMPLOYEE EVALUATION ¹: PERFORMANCE STANDARDS & RATINGS (3)** Problems in rating employee performance. Proposed solutions. Developing performance standards. Use in rating employee performance. Planning for employee development based on data from performance ratings. SUMMER. FALL.
- 54.559 EMPLOYEE EVALUATION ²: TESTING & MEASURING (3)** Basic concepts and principles of administering, scoring, standardizing, validating, interpreting, using aptitude, performance, attitudes, interests, personal traits tests in employee evaluation programs. SUMMER.
- 54.560 EMPLOYEE EVALUATION ³: QUALIFICATIONS ANALYSIS (3)** Scope of qualifications analysis; relation to job analysis and psychology; psychological categories; principles and problems; recording qualifications in job specifications; job specifications in employee evaluation. FALL. SPRING.
- 54.561 EMPLOYEE EVALUATION ⁴: INTERVIEWING & PERSONNEL DATA ANALYSIS (3)** Types of interviewing; planning, conducting, interpreting the interview; obtaining personal history data; analyzing personal data; rating education and experience; validation; use in employee evaluation. SPRING. SUMMER.
- 54.562 PROBLEMS IN MILITARY-CIVILIAN MANAGEMENT (3)** Adapting personnel and other management principles to the military-civilian work situation. Techniques for developing mutual understanding, teamwork. SPRING.
- 54.563 GOVERNMENT PERSONNEL PROBLEMS ABROAD (3)** Identification, analysis of special problems of federal personnel administration in foreign countries, territories, possessions. Practices, problems, trends. Special reports by experienced officials. SPRING.
- 53.582 PUBLIC PERSONNEL ADMINISTRATION (3)** Directed reading in public personnel administration. SUMMER.
- 54.663 TRENDS IN PERSONNEL MANAGEMENT (3)** Seminar in current trends and issues in personnel management. Consideration of interrelationships of public and private personnel. Individual projects selected by the student and instructor. *Prerequisite, a course in personnel management or training and experience in professional aspects of the field.* FALL. SPRING.
- 54.664 CURRENT PROBLEMS IN MANPOWER UTILIZATION (3)** Methods in manpower utilization in terms of national manpower supply and demand. Job rebuilding, training, transfer, incentives; group problems, interests; comparisons between industry and government. FALL.
- 54.755 SEMINAR IN EMPLOYEE EVALUATION (3)** Advanced seminar for graduate students interested in special research projects in the field of employee evaluation. SPRING.
- 54.760 SEMINAR IN PERSONNEL ADMINISTRATION (3)** Advanced seminar for graduate students interested in special research projects in the field of personnel administration. FALL.

INSTITUTES

- 31.050 INSTITUTE FOR TEACHERS OF GOVERNMENT & ADMINISTRATION (No credit)** See page 94.
- 31.051 INSTITUTE ON ADMINISTRATION OF SCIENTIFIC RESEARCH & DEVELOPMENT (No credit)** See page 94.
- 31.052 INSTITUTE ON ATTITUDE SURVEYS & THE FEDERAL AGENCIES (No credit)** See page 94.
- 31.053 INSTITUTE ON ELECTRONICS & MANAGEMENT (No credit)** See page 94.
- 31.550 INSTITUTE IN THE PRESERVATION & ADMINISTRATION OF ARCHIVES (3)** See page 95.
- 31.551 INSTITUTE ON RECORDS MANAGEMENT (3)** See page 95.
- 31.553 INTERNATIONAL WORKSHOP IN APPLIED MANAGEMENT (3)** See page 95.

INTERN PROGRAMS

- 54.591 PROBLEMS IN PUBLIC ADMINISTRATION (3)** Seminar for Civil Service Commission Intern Program. Lectures, discussions by authorities and government officials; current issues in public policy and problems in public administration. Advanced reading, written reports. FALL. SPRING.

- 54.592 PUBLIC ADMINISTRATION INTERN COLLOQUIUM (3)** Seminar for the Department of the Navy Interns. Lectures, discussions. Administrative case studies and advanced reading and written reports. FALL. SPRING.
- 54.593 SEMINAR: PUBLIC ADMINISTRATION INTERNS (6)** Problem seminar for Public Administration Interns oriented to work assignments, related areas of administration. FALL. SPRING.
- 54.691 IN-SERVICE TRAINING PROJECTS (3)** Study and research projects undertaken by a limited number of properly qualified persons as an integral part of their degree programs in fields related to their official duties in governmental or private agencies. Supervised jointly by the faculty and officers in the agencies in which the students are employed. *Prerequisite, permission of department chairman and dean of the graduate school.* SUMMER. FALL. SPRING.

RESEARCH AND READING

- 54.070 RESEARCH SEMINAR IN LATIN AMERICAN GOVERNMENTS (No credit)** Postdoctoral seminar for persons interested in research problems in Latin American governments. Inquiry into definition of significant problems for research, methodology, bibliography. FALL.
- 54.594 PUBLIC AFFAIRS LABORATORY (6)** Field study of public affairs. Conferences with leading legislative, administrative, other officials. Problems of policy, management, organization. Reports on field conferences and demonstrations. SUMMER.
- 54.692 PUBLIC ADMINISTRATION: CASE STUDY RESEARCH (6)** Research project in which the principles of public administration are applied to a specific organizational unit. *Prerequisite, candidacy for an advanced degree in public administration.* SUMMER. FALL. SPRING.
- 54.790 SEMINAR IN APPLIED RESEARCH METHODOLOGY (3)** Advanced seminar for graduate students interested in the application of research methods to a particular problem or situation. Individual projects. FALL.
- 54.799 THESIS SEMINAR IN GOVERNMENT & PUBLIC ADMINISTRATION (3-6)**

History

Professors: ERNEST CORRELL; HAROLD E. DAVIS; DONALD DERBY; ARTHUR A. EKIRCH, JR.; ERNEST POSNER (Chairman). *Adjunct Professors:* SOLON J. BUCK; LOUIS C. HUNTER. *Associate Professors:* DAVID J. BRANDENBURG; DOROTHY D. GONDOS. *Professorial Lecturers:* FRITZ T. EPSTEIN; ARTHUR W. HUMMEL; KERIM K. KEY; STANLEY NEHMER; FRANCIS C. PRESCOTT; BOYD C. SHAFER. *Lecturers:* MEREDITH B. COLKET, JR., MARY R. DEARING; DONALD M. DOZER; GRACE E. FOX; JOHN P. HARRISON; BERNARD KIERNAN; WAYNE D. RASMUSSEN; HERBERT SNYDER.

Degree Programs

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Arts.

University Requirements38-43 hours

ASSOCIATE IN ARTS

Major courses 18 hours
 3 hours selected from the following: 29.500 Historical Research: Materials and Methods, 29.501 History of Historical Writing, 29.503 Historical Writing in the U.S., or 29.504 Philosophy of History; and 15 additional hours including at least 9 hours in one of the following fields: U.S. history, European history, Latin American history, economic history, and history of government.

BACHELOR OF ARTS

Major courses 24 hours
 6 hours of survey courses in American or European history; 3 hours selected from the following courses: 29.500 Historical Research: Materials & Methods, 29.501 History of Historical Writing, 29.503 Historical Writing in the U.S., or 29.504 Philosophy of History; 29.492 Senior Undergraduate Seminar (3); and 12 additional hours including at least 9 hours in one of the following fields: U.S. history, Latin American history, European history, economic history, and history of government.
 Related courses18-24 hours
 6 hours in the humanities (for which foreign language may be substituted) and 18 hours in advanced humanities or social sciences.
 Tool courses 0-6 hours
 6 hours in a foreign language may be substituted for 6 hours of work in related courses.

Electives—

Associate in Arts.....to complete 63 hours
 Bachelor of Arts.....to complete 126 hours

GRADUATE DEGREES—Master of Arts, Doctor of Philosophy.

MASTER OF ARTS

Course Requirements: Minimum of 30 hours of approved graduate work, 6 of which may be in 29.799 Thesis Seminar-History (3-6).

Written Comprehensive Examinations: 3, including one in the general history of Europe, the U.S., or Latin America; one in the history of a particular nation or area, a specialized period of history, or a special phase in the history of a nation, area, period, or aspect of history; and one in a related field of the humanities or social sciences.

Other Requirements: Thesis.

DOCTOR OF PHILOSOPHY

Course Requirements: Minimum of 72 hours of approved graduate work, at least 30 of which must be completed in residence at The American University.

Written Comprehensive Examinations: 5, including two in the general history of two of the following: Europe, the U.S., and Latin America; two in the history of particular nations or areas, specialized periods of history, or a special phase in the history of a nation, area, period, or aspect of history; and one in a related field of the humanities or social sciences.

Other Requirements: Proficiency examinations in two tools of research (languages or an approved substitute), thesis and oral examination on thesis.

Undergraduate Courses

- 29.100 **BACKGROUNDS OF AMERICAN DEMOCRACY**¹ (3) Introduction to historical studies. The U. S. as a phase of western civilization. Expansion of Europe; economic and social background; man and the state. SUMMER. FALL. SPRING.
- 29.101 **BACKGROUNDS OF AMERICAN DEMOCRACY**² (3) The U. S. studied with reference to religious history, the growth and implications of modern thought, science, technology, and the quest for world order. *Prerequisite*, 29.100. SUMMER. FALL. SPRING.
- 29.200 **CIVILIZATION IN THE AMERICAS**¹; **NATIONAL ORIGINS** (3) Origin and development of the U. S., Canada, and the nations of Latin America to 1825. Western hemisphere considered as a unit with common historical background. 1957 FALL AND ALTERNATE YEARS.
- 29.201 **CIVILIZATION IN THE AMERICAS**²; **NATIONAL DEVELOPMENT** (3) Growth and development of the American nations since 1825. Inter-American relations and the Pan American movement. The Americas in recent world affairs. 1958 SPRING AND ALTERNATE YEARS.
- 29.310 **THE ANCIENT WORLD** (3) Origin and nature of early near-eastern and Greek cultures. Economic, social, political, military, administrative history of the Roman world. 1956 FALL AND ALTERNATE YEARS.
- 29.311 **MEDIEVAL EUROPE** (3) Formative period of European civilization. Transition of social life and political institutions from the Roman Empire to the age of European discovery and exploration. 1957 SPRING AND ALTERNATE YEARS.
- 29.312 **HISTORY OF EUROPE**¹ (3) Nature, causes, social consequences of the Reformation. Catholic Counter-Reformation. Evolution of political ideologies and institutions. Expansion of commerce and the growth of empires. French Revolution. 1957 FALL AND ALTERNATE YEARS.
- 29.313 **HISTORY OF EUROPE**² (3) Development of European nationalities from 1815 to 1914. Metternich reaction, rise of liberalism, industrial revolution, and social, cultural, and economic bases of nationalism and imperialism. 1958 SPRING AND ALTERNATE YEARS.
- 29.320 **HISTORY OF ENGLAND**¹ (3) Political, economic, social, and cultural life in England to 1689. Origins and development of constitutional government. Beginnings of empire. Correlation with pre-law studies and English literature. 1957 FALL AND ALTERNATE YEARS.
- 29.321 **HISTORY OF ENGLAND**² (3) England and the British Empire since 1689. Evolution of constitutional government, expansion of empire, the empire system since World War II. Correlation with pre-law studies and English literature. 1958 SPRING AND ALTERNATE YEARS.
- 29.330 **INTRODUCTION TO CHINESE CIVILIZATION** (3) Survey of Chinese civilization from beginnings to modern times. Emphasis on cultural, political, social aspects and on relations between China and the western world. SPRING.
- 29.420 **ENGLISH CONSTITUTIONAL HISTORY** (3) Development of English political institutions, practices, ideas. Emphasis on evolution of representative traditions rather than on political narrative. Not offered 1956-1959.
- 29.400 **HISTORY OF THE U. S.**¹ (3) Survey course giving a comprehensive history of our country from colonial times to the Civil War. SUMMER. FALL.
- 29.441 **HISTORY OF THE U. S.**² (3) Survey course covering period from the Civil War to the present. SUMMER. SPRING.
- 29.442 **AMERICAN BIOGRAPHIES** (3) Lives of personalities representative of the periods and problems of American history. Discussions and lectures on backgrounds of issues symbolized by individuals studied. Not offered 1956-1959.

- 29.443 SOCIAL HISTORY OF THE U. S.¹ (3)** Social factors in U. S. history from colonial times to the Civil War. Emphasis upon the family, labor, immigration, slavery, religion, the westward movement. 1956 FALL AND ALTERNATE YEARS.
- 29.444 SOCIAL HISTORY OF THE U. S.² (3)** Analysis of American society since the Civil War with special attention to social classes and ethnic groups, urbanization, industrialism, technology, the social gospel, popular recreation. 1957 SPRING AND ALTERNATE YEARS.
- 29.492 SENIOR UNDERGRADUATE SEMINAR (3) FALL.**

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

HISTORIOGRAPHY & METHODS OF RESEARCH

- 29.500 HISTORICAL RESEARCH: MATERIALS & METHODS (3)** Critical use of materials available for research in modern history. Techniques, methods of inquiry, evaluation of materials, and types and styles of historical writing. 1956 FALL. 1957 SPRING AND ALTERNATE YEARS.
- 29.501 HISTORY OF HISTORICAL WRITING (3)** Development of historiography from the period of the Renaissance. Trends in historical thinking, research, and writing. Discussion of representative historical works. 1957 FALL AND ALTERNATE YEARS.
- 29.503 HISTORICAL WRITING IN THE U. S. (3)** Analysis of historical writing in the U. S. from colonial times. Attention to prominent historians and trends in historical thinking and interpretation. 1958 SPRING AND ALTERNATE YEARS.
- 29.504 PHILOSOPHY OF HISTORY (3)** Contemporary issues in the philosophy of history with special attention to problems of meaning and structure in the historical process, considered in the light of their historical roots. 1956 FALL AND ALTERNATE YEARS.
- 29.509 GENEALOGICAL RESEARCH: MATERIALS & METHODS (3)** Principles and methods of genealogical research and the practical use of genealogical materials in the National Archives and other depositories in or near Washington. FALL.
- 31.530 INSTITUTE OF GENEALOGICAL RESEARCH (3)** See page 94.

EUROPE, ASIA, AFRICA

- 29.510 RENAISSANCE & REFORMATION (3)** Political and social history of Europe from the 15th century to 1648. Transition of Europe from medieval to modern times; impact of explorations and the Reformation. Rise of capitalism. 1958 FALL.
- 29.511 FRENCH REVOLUTION & NAPOLEON (3)** European history from 1789 to 1815. Significant aspects of the French Revolution, the Napoleonic Empire, and the Congress of Vienna. 1958 SPRING.
- 29.512 HISTORY OF EUROPE: 1870 TO 1914 (3)** Political, economic, and cultural effects of nationalism, imperialism, and industrialization in Europe. National developments and international alliances. Background of World War I. 1957 AND 1958 SPRING. 1958 FALL.
- 29.513 EUROPE SINCE 1914 (3)** Political, social, and economic developments in Europe from the beginning of World War I through World War II. 1956 AND 1957 FALL. 1957 SPRING AND ALTERNATE YEARS.
- 29.514 MODERN REVOLUTIONS (3)** Theory of revolutionary movements and the form and structure of revolution as exemplified in the Puritan, American, French, and Russian revolutions. 1958 SUMMER.
- 29.515 EXPANSION OF EUROPE (3)** Oversea expansion of European countries from the 15th through the 19th centuries. Influence of colonial and imperialistic expansion in shaping recent history. 1957 SUMMER.
- 29.516 ECONOMIC HISTORY OF MODERN EUROPE¹ (3)** European economy from medieval times through the 18th century. Origins and growth of capitalism. Industrialism, colonialism; public credit and private finance; formation of national economies. FALL.
- 29.517 ECONOMIC HISTORY OF MODERN EUROPE² (3)** Economic aspects of European industrial, national, and colonial development since the 18th century. SPRING.
- 29.519 DIPLOMATIC HISTORY OF EUROPE, 1815-1914 (3)** From the Congress of Vienna to the beginning of World War I. Special attention to emergence and effects of nationalism. 1957 FALL.
- 29.525 FRANCE: EMPIRE TO FOURTH REPUBLIC (3)** Collapse of Second Empire. Formation of the Third Republic and its course to 1940. Vichy interlude and Fourth Republic. Reading knowledge of French desirable. Not offered 1956-1959.
- 29.528 GERMANY SINCE 1870 (3)** German History from the Bismarck era to the downfall of the Nazi regime. 1956 AND 1957 FALL.
- 29.530 HISTORY OF CZARIST RUSSIA (3)** Expansion of Russia from the Muscovite principality to the empire of the 20th century. Development of institutions and culture. 1957 FALL.
- 29.531 RUSSIA SINCE 1917 (3)** Soviet Union from the October revolution to the death of Stalin. Emphasis on internal political, socio-economic, and cultural developments. 1956 FALL. 1958 AND 1959 SPRING.

- 29.532 HISTORY OF EAST & CENTRAL EUROPE (3)** East Central Europe (Finland, the Baltic States, Poland, Czechoslovakia, and Hungary) under Russian, Prussian and Austrian domination. The independent States in the Post World War I period. 1958 FALL.
- 29.533 HISTORY OF THE BALKANS & TURKEY (3)** Historical backgrounds. Period of Turkish domination. Rise of nationalism in the Balkans. Great Power diplomacy and the partition of Turkey. Recent developments. 1957 SPRING.
- 29.535 HISTORY OF THE FAR EAST (3)** Historical backgrounds; invasion of western influence; conflict of national interests; economic and cultural systems; Asiatic consciousness and world organization. FALL. 1959 SPRING.
- 29.536 HISTORY OF AFRICA (3)** History of the African continent during the modern period. European colonization and competition; internal economic, social, and political developments; emerging African nationalism. 1958 SUMMER.
- 29.537 HISTORY OF THE MIDDLE EAST (3)** Survey from earliest times to the present. Special emphasis on political, economic, cultural developments in Turkey, Iran, Afghanistan, the Arab States, Israel. 1957 SUMMER.
- 29.610 INTELLECTUAL HISTORY OF EUROPE THROUGH THE ENLIGHTENMENT (3)** Ideas and outlooks that have influenced the development of western history from the 13th century to the eve of the French Revolution. Not offered 1956-1959.
- 29.611 INTELLECTUAL HISTORY OF EUROPE FROM THE FRENCH REVOLUTION (3)** Cultural and intellectual currents from the end of the 18th century. Rise of the romantic movement; impact of revolutionary ideas, science, and industrial technology. Not offered 1956-1959.

UNITED STATES

- 29.540 COLONIAL ORIGINS OF THE U. S. (3)** European backgrounds. Conflict of rival colonial systems. Political, economic, and social developments within the colonies. Causes and development of revolt. 1958 SUMMER.
- 29.541 ERA OF THE AMERICAN REVOLUTION (3)** Survey of colonial backgrounds. Origins and development of the American Revolution. Drafting and establishment of the Constitution of the U. S. FALL.
- 29.542 DEVELOPMENT & DISRUPTION OF THE FEDERAL UNION (3)** The U. S. from 1789 to 1861. Social and political implications of the Jeffersonian and Jacksonian reform movements of the period. Growth of sectionalism. 1958 FALL. 1957 AND 1959 SPRING.
- 29.543 CIVIL WAR & RECONSTRUCTION (3)** Causes and course of the war; its impact on national life. Problems and effects of reconstruction. Industrialization and urbanization. Social and economic forces. 1957 FALL.
- 29.544 THE U. S. IN THE 20th CENTURY (3)** Era of Theodore Roosevelt. Emergence of the U. S. as a world power. The New Deal. The U. S. in two world wars. 1958 SPRING.
- 29.545 THE SOUTH IN U. S. HISTORY (3)** Colonial times to the present. Factors making the south a distinctive part of the American nation. Not offered 1956-1959.
- 29.546 THE FRONTIER IN U. S. HISTORY (3)** Westward expansion from colonial times to the close of the 19th century. Analysis of Turner's frontier hypothesis in the light of recent critical literature. 1957 SUMMER.
- 29.547 HISTORY OF U. S. FOREIGN POLICY (3)** Historical treatment and critical examination of the role of the U. S. in world affairs. 1957 SPRING. 1958 FALL.
- 29.548 AMERICAN ECONOMIC HISTORY¹ (3)** Review of American economic development from the colonial beginnings to the mid-19th century. FALL.
- 29.549 AMERICAN ECONOMIC HISTORY²** Review of American economic development during the past one hundred years. SPRING.
- 29.550 HISTORY OF INDUSTRY IN THE U. S. (3)** American industrial development from the end of the 18th century to the present. Structural and organizational aspects, location trends, technology, and distribution. 1958 SUMMER AND ALTERNATE YEARS.
- 29.551 HISTORY OF AGRICULTURE IN THE U. S. (3)** Agrarian settlement and land policies, history and significance of farm implements and machinery; agricultural development by regions and commodities. 1957 SUMMER AND ALTERNATE YEARS.
- 29.553 HISTORY OF AMERICAN BUSINESS LEADERSHIP (3)** The business heritage: studies in American business history for students with strong background in Business Administration, Economics or American History. FALL. SPRING. 1958 SUMMER.
- 29.640 INTELLECTUAL HISTORY OF THE U. S.¹ (3)** Ideas and attitudes of the American people and their leaders from colonial times to the Civil War. Puritanism, the enlightenment, transcendentalism, democracy, and nationalism. FALL.
- 29.641 INTELLECTUAL HISTORY OF THE U. S.² (3)** Dominant patterns of American thought from the Civil War to the present. Impact of Darwinian evolution, industrialism, the vanishing frontier, progressive democracy, imperialism, and war. SPRING.
- 29.642 CONCEPT OF AMERICAN NATIONALISM (3)** Origin and development of nationalism with attention to manifest destiny, cultural nationalism, patriotism, and world-mindedness. 1957 SUMMER AND ALTERNATE YEARS.
- 29.643 U. S. EXPANSION ABROAD (3)** Political and economic expansion of the U. S. in key areas such as Latin America and the Pacific. Ideological impact of American civilization in all parts of the world. 1958 SUMMER AND ALTERNATE YEARS.

THE OTHER AMERICAS

- 29.570 COLONIAL ORIGINS OF LATIN AMERICAN NATIONS (3)** Colonization by Spain, Portugal, and France. Causes and developments of independence movements. 1959 SPRING.
- 29.571 GROWTH OF LATIN AMERICAN NATIONALISM (3)** History of Latin America from independence to the end of the 19th century. Constitutional, sociological, economic, and ideological aspects of national development. 1957 FALL.
- 29.572 LATIN AMERICA IN THE 20th CENTURY (3)** Movements of economic nationalism. Agrarian, electoral, and educational reform. Militarism: cultural, ideological, and religious developments. 1957 SPRING, 1958 FALL.
- 29.573 LATIN AMERICAN SOCIAL & POLITICAL THOUGHT (3)** Spanish and Portuguese backgrounds. Ideas of the independence leaders. Mid-century liberalism and romanticism. Positivist thought. Contemporary trends. 1956 FALL, 1957 SPRING.
- 29.574 HISTORY OF CANADA (3)** National development from colonial origins to the achievement of dominion status. Westward expansion. Relations with the U. S., the Commonwealth of Nations, and the United Nations. Not offered 1956-1959.

SEMINARS

- 29.710 RESEARCH SEMINAR IN EUROPEAN HISTORY (3)** 1957 SPRING, 1958 FALL.
- 29.740 RESEARCH SEMINAR IN THE HISTORY OF THE U. S. (3)** 1957 FALL.
- 29.799 THESIS SEMINAR IN HISTORY (3-6)**

Institutes

The University offers each year short, intensive institutes primarily for students already established in their professions who desire to increase their knowledge of the theories and techniques of their specialties. Institute programs are developed in consultation with specialists in business organizations, government agencies, and national associations located in Washington and consist of formal lectures and seminar discussions, field and laboratory work, reading assignments, and research projects. Institutes are offered as credit and non-credit courses. A limited amount of credit earned by the completion of some institutes may be used to meet the requirements for undergraduate and graduate degrees as described on pages 33-40. For information concerning individual institutes apply to the dean of the School of Social Sciences and Public Affairs, 1901 F Street, N.W., Washington 6, D. C.

- 31.001 INSTITUTE ON EMPLOYEE COMMUNICATION (No credit)** Theory, practice of employee-management communication. Principles, media, group relations, employees' opinion surveys. "How to do it" lectures by experts. Group discussions. Institute meets 9 days (54 hours). Not offered 1956-1959.
- 31.002 INSTITUTE ON MATERIALS HANDLING (No credit)** Materials handling and packaging; principles, fields of activity, operating problems, space utilization, determining handling costs and efficiency. Organizational aspects. Institute meets 2 days (20 hours). Not offered 1956-1959.
- 31.005 INSTITUTE ON PROFITABLE MANAGEMENT FOR SMALL BUSINESS (No credit)** Intensive course for owners, operators, managers of small business firms. SPRING.
- 31.020 INSTITUTE OF INDUSTRIAL TRANSPORTATION & TRAFFIC MANAGEMENT (No credit)** Courses and field trips designed for present and future junior executives in traffic management. Institute meets 14 days (88 hours). FALL.
- 31.021 AIR TRANSPORTATION INSTITUTE (No credit)** Courses and field trips designed for present and future junior executives in air transportation. Institute meets 14 days (88 hours). FALL.
- 31.022 RAIL TRANSPORTATION INSTITUTE (No credit)** Courses and field trips designed for present and prospective junior executives in rail transportation agencies. Institute meets 14 days (88 hours). SPRING.
- 31.023 INSTITUTE ON FEDERAL TAXES (No credit)** Lectures and panel discussions for advanced tax lawyers and tax accountants. Institute meets 4 days (22 hours). FALL.
- 31.025 FOREIGN TRANSPORTATION INSTITUTE (No credit)** Courses and field trips designed for present and prospective junior executives in inland transportation agencies engaged in foreign transportation. Institute meets 14 days (88 hours). SPRING.
- 31.050 INSTITUTE FOR TEACHERS OF GOVERNMENT & ADMINISTRATION (No credit)** Offered with the cooperation of the American Political Science Association. Conferences with national leaders about current topics. Exploration of resources for enrichment of teaching. Institute meets 10 days (60 hours). SUMMER.
- 31.051 INSTITUTE ON ADMINISTRATION OF SCIENTIFIC RESEARCH & DEVELOPMENT (No credit)** For persons engaged in administration of scientific research and development. Exploration of problems; methods of solution. Invited experts hold sessions in addition to University faculty. SUMMER.
- 31.052 INSTITUTE ON ATTITUDE SURVEYS & THE FEDERAL AGENCIES (No credit)** Intensive program to explore current experience and thinking in the use of opinion and attitude research by government agencies. Institute meets 3 days (20 hours). SUMMER.
- 31.053 INSTITUTE ON ELECTRONICS & MANAGEMENT (No credit)** Current developments in electronic processing and automation; management problems and their solutions; field visits and reports on experience; potential applications and their challenge to management. FALL.
- 31.504 INSTITUTE ON REAL ESTATE APPRAISAL ² (3)** Official advanced demonstration case-study course of American Institute of Real Estate Appraisers. Students appraise two properties, prepare written reports. Credit applicable toward membership in Institute of Real Estate Appraisers as well as toward University degrees. *Prerequisite, 11.589 Real Estate Appraisal,¹ five years of real estate experience, or satisfactory completion of special Institute of Real Estate Appraisers examination.* Institute meets 11 days (80 hours). 1957 AND 1959 SUMMER.
- 31.506 INSTITUTE OF C.P.A. EXAMINATION REVIEW (6)** Refresher course for November C.P.A. examination candidates. Review of examination subjects, practice in solution of previous examination problems. Meets during the summer and into the fall (75 hours). SUMMER.
- 31.530 INSTITUTE OF GENEALOGICAL RESEARCH (3)** Principles and methods of genealogical research and the practical use of genealogical materials in the National Archives and other depositories in or near Washington. Institute meets 15 days (75 hours). SUMMER.
- 31.540 INSTITUTE ON THE POSITION OF THE U. S. IN WORLD AFFAIRS (4-6)** Institute for teachers and other students designed to show the formation and implementation of current U. S. foreign policy. Seminars and meetings with government and diplomatic officials. Institute meets five weeks in Washington, the last week at the headquarters of the United Nations, a total of 6 weeks. SUMMER.

- 31.550 INSTITUTE IN THE PRESERVATION & ADMINISTRATION OF ARCHIVES (3)** Lectures on phases of archives administration and laboratory experience in the National Archives, the Library of Congress, and the Maryland Hall of Records. Institute meets 20 days (105 hours). SUMMER.
- 31.551 INSTITUTE ON RECORDS MANAGEMENT (2)** Offered in cooperation with the National Archives and Records Service. Emphasizes constructive approach aimed at the effective and economical creation, maintenance, retention of records of maximum use to the organization concerned. Lectures and workshop sessions. Institute meets two weeks (60 hours). SUMMER.
- 31.553 INTERNATIONAL WORKSHOP IN APPLIED MANAGEMENT (3)**
- 31.561 INSTITUTE OF HUMAN RELATIONS & INTERGROUP UNDERSTANDING (3)** Seminar meetings dealing with the psychological and social problems of discrimination, prejudice, and race antagonisms on both the local and world levels. Nationally recognized consultants discuss methods of improving race relations. Institute meets 15 days (67 hours). SUMMER.
- 31.565 INSTITUTE ON CURRENT PROBLEMS IN EDUCATION (4-6)**

International Relations and Organization

Professors: PITMAN B. POTTER (Chairman); SAMUEL L. SHARP. *Adjunct Professor:* ELI E. NOBLEMAN. *Associate Professor:* MARY E. BRADSHAW. *Professorial Lecturers:* LAWRENCE D. EGBERT; N. G. D. JOARDER; KERIM K. KEY. *Lecturers:* ROBERT D. BAUM; DONALD M. DOZER; E. TAYLOR PARKS; LAWRENCE W. WADSWORTH, JR.

Degree Programs

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Arts.

University Requirements 38-43 hours

Student majoring in international relations and organization are advised to complete 19.201 Structure of the American Economy (3), 33.200 Introduction to World Politics (3), and 53.200 American Government: National (3), as a part of their University requirements.

Departmental Requirements—

ASSOCIATE IN ARTS

Major courses 12 hours

BACHELOR OF ARTS

Major courses 24 hours

Including 9 hours from one of the following fields and at least 3 hours each in 3 of the others: international organization and administration, international law and legislation, international political relations (including area studies), American diplomacy, and the United Nations.

Related courses 15-21 hours

3 hours each in economics, geography, history, political science, and psychology and an additional 6 hours in psychology or political theory.

Tool courses 3-9 hours

Modern foreign languages or statistics.

Electives—

Associate in Arts.....to complete 63 hours

Bachelor of Arts.....to complete 126 hours

GRADUATE DEGREES—Master of Arts, Doctor of Philosophy.

MASTER OF ARTS

Course Requirements: Minimum of 30 hours of approved graduate work, 6 of which may be in 31.799 Thesis Seminar-International Relations and Organization (3-6).

Written Comprehensive Examinations: 3, including one in international organization; one in American diplomacy, international administration, Inter-American system, international law, international relations of a specified area, or the United Nations; and one in a related field.

Other Requirements: Thesis.



Curtain Goes Up on Drama Production



Studying in
University Library



Washington
College of Law
In Moot Court Session



Dean Counsels Students



Art Students Painting
in Roper Studio



Biology Students at Work

Student Modelling Head
In Sculpture Class



The University Chapel



Commencement in Quadrangle

Conferring the Degree
at Commencement



DOCTOR OF PHILOSOPHY

Course Requirements: Minimum of 72 hours of approved graduate work, at least 30 of which must be completed in residence at The American University.

Written Comprehensive Examinations: 5, including one in international organization; one in international law; two selected from the following fields: American diplomacy, international administration, Inter-American system, international relations of a specific area, and the United Nations; and one in a related field.

Other Requirements: Proficiency examinations in two tools of research (languages or an approved substitute), thesis and oral examination on thesis.

Undergraduate Courses

- 33.200 INTRODUCTION TO WORLD POLITICS (3)** Survey treating bases and modalities of relations among national states. Geographic, political, economic, and social factors. Techniques and responsibilities of the great powers for maintaining peace. SUMMER. FALL. SPRING.
- 33.300 PROBLEMS IN WORLD POLITICS (5)** Selected problems in contemporary world politics; case studies of geopolitical, economic, and population factors shaping international relations. Role of ideology in foreign policy. FALL. SPRING.
- 33.402 FOREIGN POLICIES OF THE GREAT POWERS (3)** Great power politics since World War I. Attention to issues such as security, imperialism, international cooperation, and international organization. Not offered 1956-1957.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

- 33.510 AMERICAN DIPLOMACY (3)** Department of State; Foreign Service; principles of constitutional law and practices governing the President, the Department, Congress, etc. Principles of American foreign policy and recent developments. FALL.
- 33.512 PROBLEMS IN AMERICAN DIPLOMACY (3)** Post-war difficulties, settlements, programs. Economic development and regional defense systems. Discussion of current trends in American foreign relations. SPRING.
- 33.513 U. S.-CANADIAN RELATIONS (3)** Development of U. S.-Canadian relations. International organizations operating between the two countries. Current problems. 1957 SPRING AND ALTERNATE YEARS.
- 33.516 INTERNATIONAL RELATIONS BETWEEN WARS (3)** Diplomacy of 1919-1939 with particular reference to Europe. Development and breakdown of the French system; collective security, Facism and Nazism, the Soviet Union, the role of the U. S. in European affairs. FALL.
- 33.517 DIPLOMACY OF WORLD WAR II (3)** Principal diplomatic activities of the states chiefly concerned in the outbreak, conduct, conclusion of World War II. SUMMER.
- 33.520 CENTRAL & WESTERN EUROPE INTERNATIONAL RELATIONS (3)** Principal problems in the foreign relations of the nations of Central and Western Europe, including Great Britain but excluding the Scandinavian countries. Basic geographical, economic, and social factors. SPRING.
- 33.521 RUSSIAN EXPANSION: CZARIST & SOVIET (3)** Main trends of Russian territorial and political expansion in Europe and Asia since the 17th century. Ideological tools of expansion, including Orthodoxy, Pan-Slavism, and International Communism. Not offered 1956-1957.
- 33.522 SOVIET RUSSIA IN WORLD AFFAIRS (3)** Development of Russia's international position under the Soviet system; analysis of the aims and methods of Soviet diplomacy with particular emphasis on the record since the end of World War II. Not offered 1956-1957.
- 33.523 PROBLEMS OF THE MIDDLE ZONE: FINLAND TO GREECE (3)** Internal and external problems of countries lying between Germany and Russia in their historical and contemporary setting. Past and current plans for federal union in this area. FALL.
- 33.524 CONTEMPORARY AFRICAN PROBLEMS (3)** Independent nations in Africa and their international relations. Dependent territories and their relations to metropolitan countries and the United Nations. Future place of Africa in world politics. SPRING.
- 33.525 MIDDLE EAST INTERNATIONAL RELATIONS (3)** Political, economic, and social backgrounds and foreign relations of the countries of the middle east, with special emphasis on constitutional, economic, and cultural developments of Afghanistan, Iran, the Arab states, Israel and Turkey. SUMMER.
- 33.526 INDIA IN WORLD POLITICS (3)** Indian national independence movement; Gandhian non-violence. Dominion status and its consequences; republican constitution; political parties. Indian foreign policy; relations with other countries and the United Nations. FALL.
- 33.527 SOUTHEAST ASIA INTERNATIONAL RELATIONS (3)** Geopolitical position of southeast Asia; social and economic forces, natural resources, economic demography, agricultural and industrial planning, trade relations. Political forces; colonialism, nationalism, communism; trends in foreign relations and foreign policy; U. S. policy toward southeast Asia. SPRING.

- 33.528 **FAR EAST INTERNATIONAL RELATIONS (3)** Geographic setting; penetration by western powers; colonialism and imperialism; interests and policies of the great powers; rise of nationalism; effect of two world wars; influence of the League of Nations and the United Nations; regionalism in the orient. **SPRING.**
- 33.529 **INTER-AMERICAN INTERNATIONAL RELATIONS (3)** A survey of the historical background and recent development of U. S. relations with Latin America and of diplomatic relations among the Latin American states. 1957 **FALL AND ALTERNATE YEARS.**
- 33.530 **INTERNATIONAL ASSISTANCE PROGRAMS FOR BACKWARD AREAS (3)** Objectives and organizational and operational techniques; bilateral and multilateral United Nations and U. S. assistance programs. Reconstruction, financial aid, technical assistance, and social welfare. Specific operations in foreign areas. *Prerequisite, introductory courses in international organization and economics.* **FALL.**
- 33.531 **SOVIET RUSSIA IN THE NEAR & MIDDLE EAST (3)** Analysis of Soviet foreign policy and Moscow-directed revolutionary activity in the Afro-Asian area since 1917. **FALL.**
- 31.540 **INSTITUTE ON THE POSITION OF THE U. S. IN WORLD AFFAIRS (4-6)** See page 94.
- 33.550 **INTERNATIONAL ORGANIZATION & ADMINISTRATION (3)** Nature, bases, and functions of international organization. Diplomacy, treaties, international conferences and legislation, international administration and adjudication; international federation; world government. League of Nations and United Nations. **FALL. SPRING.**
- 33.551 **UNITED NATIONS ORGANIZATION & FUNCTIONS (3)** The Charter. Origins, functions, operation of the principal organs with emphasis upon General Assembly and Security Council. Admission of members, obligations of membership. **FALL.**
- 33.552 **UNITED NATIONS ECONOMIC & SOCIAL OPERATIONS (3)** Study of ECOSOC and the specialized agencies. Trusteeship system and the principle of trusteeship. **SPRING.**
- 33.554 **THE INTER-AMERICAN SYSTEM (3)** Organization and operation of the Organization of American States and affiliated organizations. Inter-American peace and security system. Relationship of the system to the United Nations. 1958 **FALL AND ALTERNATE YEARS.**
- 33.555 **THE U. S. & INTERNATIONAL ORGANIZATION (3)** U. S. participation in international organizations; relation to foreign policy. Administrative and fiscal aspects; benefits derived; government organization to meet responsibilities; role of Congress, State Department, other agencies. **FALL. SPRING.**
- 33.556 **INTERNATIONAL ADMINISTRATION (3)** Nature of international administration. Historical development. Membership and organization of international administrative unions. Functions, procedures, finances, personnel, seat, and plant. Relations of agencies with member governments, non-member states and organizations, and the public. **SUMMER.**
- 33.560 **INTERNATIONAL LAW & LEGISLATION¹ (3)** Nature, origins, and history of international law. Forms and formation of the law (parties of international law; sovereignty and jurisdiction; international intercourse). **FALL.**
- 33.561 **INTERNATIONAL LAW & LEGISLATION² (3)** Force short of war. War and its commencement. Combatants and non-combatants. Permitted and prohibited methods. Occupation of enemy territory. Enemy aliens. Enemy property. Termination of war. Prisoners of war. War crimes. Neutral rights and duties. Prize law. **SPRING.**
- 33.562 **LAW OF INTERNATIONAL FINANCE (3)** Major principles of international law related to international trade and finance. Impact of recent legal concepts on traditional thought and practice. Bipartite and multipartite agreements; statutes; cases. Organizational developments including IMF, IBRD, and others. *Prerequisite, 33.550 or its equivalent.* Not offered 1956-1957.
- 33.563 **INTERNATIONAL LAW THEORY & HISTORY (3)** Nature and function of international law; defects and needs of revision; relation to international organization; future. **SUMMER.**
- 33.564 **INTERNATIONAL REGULATION OF AVIATION (3)** Historical evolution of aviation. Analysis of regulatory problems. International integration of regulation. Present statutes. Prospects for more effective consolidation. Not offered 1956-1957.
- 33.568 **INTERNATIONAL MARITIME LAW (3)** Origins and development of maritime law. Jurisdiction over parts of the sea. Regulation of navigation, shipping, and admiralty and maritime jurisdiction. Principles of the law applicable to the construction, ownership, operation, documentation, and liability of ships. Not offered 1956-1957.
- 33.630 **SEMINAR ON FORMULATION & ADMINISTRATION OF U. S. FOREIGN POLICY (3)** Analysis of forces and factors that condition development of American foreign policy. Emphasis upon structure, processes, coordination, administration rather than on the substance of foreign policy. **FALL.**
- 33.675 **SEMINAR ON THE UNITED NATIONS (3)** Selected problems on the United Nations and specialized agencies. **FALL.**
- 33.700 **SEMINAR IN CONTEMPORARY INTERNATIONAL RELATIONS (3)** Individual projects, group discussion of special problems; emphasis on impact of the polarization of power on traditional ideas and techniques in foreign policy. **FALL. SPRING.**
- 33.720 **LATIN AMERICAN AREA SEMINAR (3)** General studies and directed research on the peoples, institutions, economic problems, and historical backgrounds of the various areas and countries of Latin America. **SPRING.**
- 33.750 **SEMINAR IN INTERNATIONAL RELATIONS & ORGANIZATION (3)** Selected problems in international political relations and international organization exclusive of law and administration. **SPRING.**
- 33.770 **SEMINAR IN INTERNATIONAL LAW & ADMINISTRATION (3)** Selected problems in international law including international, constitutional, administrative, and criminal law and international legislation. Problems in international administration. **FALL.**
- 33.799 **THESIS SEMINAR IN INTERNATIONAL RELATIONS & ORGANIZATION (3-6)**

Languages

Professors: ALVA L. DAVIS; JOHN G. FRANK. *Associate Professor:* RUBERTA M. OLDS (Chairman). *Assistant Professor:* KATHRYN D. WYATT. *Professorial Lecturer:* ZOE WYTHER. *Lecturer:* MICHAEL SUSHKO.

Degree Programs

UNDERGRADUATE DEGREE—Associate in Arts and Bachelor of Arts in French, German, or Spanish.

University Requirements 38-42 hours

Departmental Requirements—

ASSOCIATE IN ARTS

Major courses 12 hours

BACHELOR OF ARTS

Major courses 24-36 hours

12 hours of elementary and intermediate courses (toward which credits earned in secondary schools may be applied) and 24 hours of advanced courses in the language selected as a major. Specific course requirements are as follows:

FRENCH

37.322-323 Survey of French Literature¹ and ² (6), 37.427-428 French Composition & Conversation¹ and ² (6), and 12 hours in advanced literature courses.

GERMAN

37.332-333 Survey of German Literature¹ and ² (6), 37.437 German Composition & Conversation¹ (3), and 15 hours in advanced literature courses.

SPANISH

37.352-353 Survey of Spanish Literature¹ and ² (6), 37.457-458 Spanish Composition & Conversation¹ and ², and 12 hours in advanced literature courses.

Related courses 12 hours

Art history, English literature, history, and music appreciation are recommended.

Electives—

Associate in Arts.....to complete 63 hours

Bachelor of Arts.....to complete 126 hours

Undergraduate Courses

37.010 LANGUAGE CONFERENCES (No credit) Tutorial conferences to serve candidates for higher degrees preparing for tool examinations in modern languages. Offered to meet the needs of individual students.

37.120 ELEMENTARY FRENCH¹ (3) Oral-aural approach. Practice in hearing, understanding, and speaking idiomatic French. Inductive presentation of grammar and syntax. Dictation. SUMMER. FALL.

37.121 ELEMENTARY FRENCH² (3) Continuation of 37.120. SUMMER. SPRING.

- 37.130 **ELEMENTARY GERMAN**¹ (3) Oral-aural approach. Practice in hearing, understanding, and speaking idiomatic German. Inductive presentation of grammar and syntax. Dictation. SUMMER. FALL.
- 37.131 **ELEMENTARY GERMAN**² (3) Continuation of 37.130. SUMMER. SPRING.
- 37.140 **ELEMENTARY RUSSIAN**¹ (3) Oral-aural approach. Practice in hearing, understanding, speaking idiomatic Russian. Inductive presentation of grammar and syntax. SUMMER. FALL.
- 37.141 **ELEMENTARY RUSSIAN**² (3) Continuation of 37.140. SUMMER. SPRING.
- 37.150 **ELEMENTARY SPANISH**¹ (3) Oral-aural approach. Practice in hearing, understanding, and speaking idiomatic Spanish. Inductive presentation of grammar and syntax. Dictation. SUMMER. FALL.
- 37.151 **ELEMENTARY SPANISH**² (3) Continuation of 37.150. SUMMER. SPRING.
- 37.220 **INTERMEDIATE FRENCH**¹ (3) Hearing, understanding, and speaking idiomatic French with stress on reading. Dictation. Readings in 19th and 20th century French literature. *Prerequisite, one year college French, two years secondary school French, or qualifying examination.* FALL.
- 37.221 **INTERMEDIATE FRENCH**² (3) Continuation of 37.220. SPRING.
- 37.230 **INTERMEDIATE GERMAN**¹ (3) Hearing, understanding, and speaking idiomatic German with stress on reading. Dictation. Readings in German literature. *Prerequisite, one year college German, two years secondary school German, or qualifying examination.* FALL.
- 37.231 **INTERMEDIATE GERMAN**² (3) Continuation of 37.230. SPRING.
- 37.250 **INTERMEDIATE SPANISH**¹ (3) Hearing, understanding, and speaking idiomatic Spanish with stress on reading. Dictation. Readings in 19th and 20th century Spanish literature. *Prerequisite, one year college Spanish, two years secondary school Spanish, or qualifying examination.* FALL.
- 37.251 **INTERMEDIATE SPANISH**² (3) Continuation of Spanish 37.250. SPRING.
- 37.322 **FRENCH LITERATURE**¹ (3) French literature from its beginnings to the romantic period. Reading of texts from *La Chanson de Roland* to Voltaire and Rousseau. *Prerequisite, 37.221.* FALL.
- 37.323 **FRENCH LITERATURE**² (3) French literature from romanticism to contemporary period. Readings from Chateaubriand to André Gide. Emphasis on spiritual and intellectual heritage of each succeeding literary generation. *Prerequisite, 37.322.* SPRING.
- 37.324 **CLASSICAL FRENCH LITERATURE** (3) The classical ideal during the reign of Louis XIV. Study centered on 17th century writers other than dramatists: Descartes, Pascal, Boileau, Bossuet, La Fontaine, La Rochefoucauld, and Fenelon. *Prerequisite, 37.323.* 1957 SPRING AND ALTERNATE YEARS.
- 37.325 **CLASSICAL FRENCH DRAMA** (3) Three great 17th century French dramatists: Corneille, Racine, and Moliere. Study of humanistic values expressed in their masterpieces. *Prerequisite, 37.324.* 1957 FALL AND ALTERNATE YEARS.
- 37.332 **GERMAN LITERATURE**¹: 8th TO 19th CENTURY (3) German literature from old high German period through the classical period to 19th century romanticism. *Prerequisite, 37.231.* FALL.
- 37.333 **GERMAN LITERATURE**²: 1795-1910 (3) Movements in German thought in 19th century. Selected writings. *Prerequisite, 37.332 or qualifying examination.* SPRING.
- 37.341 **SCIENTIFIC GERMAN**¹ (3) Reading of selected scientific German texts. *Prerequisite, permission of instructor.* SUMMER.
- 37.342 **SCIENTIFIC GERMAN**² (3) Continuation of 37.341. SUMMER.
- 37.352 **SPANISH LITERATURE**¹ (3) Spanish literature from epic to romantic period. Readings from *Poema del Cid* through *Siglo de Oro*. *Prerequisite, 37.250.* 1957 FALL AND ALTERNATE YEARS.
- 37.353 **SPANISH LITERATURE**² (3) Spanish literature from romanticism to contemporary period. Reading of texts from *El Duque de Rivas* and *Espronceda to Jimnez*. Emphasis on artistic and cultural standards of each period. *Prerequisite, 37.352.* 1958 SPRING AND ALTERNATE YEARS.
- 37.354 **NOVEL OF THE GOLDEN AGE** (3) Cervantes and his works with emphasis on *Don Quixote*. *Prerequisite, permission of instructor.* 1958 FALL AND ALTERNATE YEARS.
- 37.355 **DRAMA OF THE GOLDEN AGE** (3) Lope de Vega, Tirso de Molina, Ruiz de Alarcon, and Calderon de la Barca. 1959 SPRING AND ALTERNATE YEARS.
- 37.420 **THE FRENCH RENAISSANCE** (3) Renaissance and humanistic movement in France in the 16th century. Rabelais, the *Pleiadé*, Ronsard, and Montaigne. *Prerequisite, permission of the instructor.* 1959 FALL AND ALTERNATE YEARS.
- 37.421 **18th CENTURY FRANCE: MEN & IDEAS** (3) Attitudes and ideas of age of enlightenment as reflected in Montesquieu, Diderot, the Encyclopedists Voltaire, and Rousseau. *Prerequisite, permission of the instructor.* 1958 FALL AND ALTERNATE YEARS.
- 37.422 **FRENCH ROMANTICISM** (3) Development of romantic movement in early 19th century French literature. Analysis of sentiments of romanticists. *Prerequisite, permission of the instructor.* Not offered 1956-1957.
- 37.423 **FRENCH REALISM** (3) 19th century French literature from decline of romanticism to turn of century. Attention to periods of expression known as realism, naturalism, and symbolism. *Prerequisite, permission of the instructor.* Not offered 1956-1957.
- 37.424 **CONTEMPORARY FRENCH THEATER** (3) Representative plays of Paul Claudel, Jules Romains, Jean Jacques Bernard, Jean Giraudoux, Henri de Montherlant, and Jean Paul Sartre. *Prerequisite, permission of the instructor.* 1958 SUMMER.

- 37.425 **CONTEMPORARY FRENCH NOVELS (3)** Major trends in French novel since 1919. J. Romains, Mauriac, Duhamel, Gide, Malraux, Giraudoux, du Gard, Fournier, and Proust. *Prerequisite, permission of instructor.* 1958 SUMMER.
- 37.427 **FRENCH COMPOSITION & CONVERSATION¹ (3)** Emphasis on oral fluency and written accuracy of idiomatic French. Extensive readings and discussion. Required course for students majoring in French. *Prerequisite, permission of the instructor.* 1956 SUMMER.
- 37.428 **FRENCH COMPOSITION & CONVERSATION² (3)** Continuation of 37.522. *Prerequisite, permission of the instructor.* 1956 SUMMER.
- 37.430 **GERMAN CLASSICAL PERIOD (3)** German literature from rationalism and the English influence to transition from classicism to romanticism. Lessing, Herder, Goethe, Schiller, Kant, and Fichte. *Prerequisite, permission of the instructor.* 1957 FALL AND ALTERNATE YEARS.
- 37.431 **LESSING (3)** Lessing as symbol of 18th century movements in German thought. Foundations of modern German drama. Preparation for work of Kant, nature of "Aufklärung," humanistic ideals. 1958 SPRING AND ALTERNATE YEARS.
- 37.432 **GOETHE (3)** Life, times, and representative works of Goethe. Reading of *Faust*. *Prerequisite, permission of instructor.* 1958 FALL AND ALTERNATE YEARS.
- 37.433 **SCHILLER (3)** Life, times, and representative works of Schiller. His ideas, psychology as expressed in drama, and moral and artistic standards. *Prerequisite, permission of instructor.* 1959 SPRING AND ALTERNATE YEARS.
- 37.437 **GERMAN COMPOSITION & CONVERSATION¹ (3)** Emphasis on oral fluency and written accuracy of idiomatic German. Extensive readings and discussion. Required course for students majoring in German. *Prerequisite, permission of instructor.* 1957 FALL.
- 37.438 **GERMAN COMPOSITION & CONVERSATION² (3)** Continuation of 37.437. *Prerequisite, permission of instructor.* 1958 SPRING.
- 37.450 **MODERN SPANISH DRAMA (3)** Representative plays by Echegaray, Benavente, Quintero Brothers, Marquina, Martinez Sierra, and Garcia Lorca. *Prerequisite, permission of instructor.* 1958 FALL AND ALTERNATE YEARS.
- 37.451 **19th CENTURY REGIONAL NOVEL (3)** Attitudes and ideas of regional novelists. Valera, Alaron, Pereda, Galdos, Valdes, and Ibanez. *Prerequisite, permission of instructor.* 1959 SPRING AND ALTERNATE YEARS.
- 37.452 **SPANISH-AMERICAN LITERATURE¹: 1519-1888 (3)** Spanish-American literature from chronicles to period of modernism. Historical and social factors. *Epic of Araucana* to Mitre. *Prerequisite, permission of the instructor.* 1957 FALL AND ALTERNATE YEARS.
- 37.453 **SPANISH-AMERICAN LITERATURE²: MODERN PERIOD (3)** Modernism to contemporary period. Najera through Mistral. *Prerequisite, permission of the instructor.* 1959 SPRING AND ALTERNATE YEARS.
- 37.457 **SPANISH COMPOSITION & CONVERSATION¹ (3)** Emphasis on oral fluency and written accuracy of idiomatic Spanish. Extensive readings and discussion. Required course for students majoring in Spanish. *Prerequisite, permission of instructor.* 1957 FALL AND ALTERNATE YEARS.
- 37.458 **SPANISH GRAMMAR, COMPOSITION, & CONVERSATION² (3)** Continuation of 37.552. *Prerequisite, permission of the instructor.* 1958 SPRING AND ALTERNATE YEARS.
- 37.459 **CONTEMPORARY SPANISH LITERATURE (3)** Generation of 1898 and contemporary poets, novelists, dramatists, and critics. *Prerequisite, permission of instructor.* 1958 FALL AND ALTERNATE YEARS.

Mathematics

Professors: FRITZ OBERHETTINGER; WALTER F. SHENTON (Chairman); BANCROFT W. SITTERLY; PAUL N. SOMERVILLE (Visiting). *Adjunct Professors:* EUGENE LUKACS; ERNEST E. BLANCHE. *Associate Professor:* HENRY A. ANTOSIEWICZ. *Assistant Professor:* PETER HENRICI. *Professorial Lecturers:* FRANZ ALT; WALTER JACOBS; CLAIRET MACHLIN; RAYMOND J. SEEGER; OLGA TAUSKY-TODD; JOHN TODD. *Lecturers:* MILTON ABRAMOWITZ; JOSEPH BRAM; ROBERT W. BRYANT; HOWARD CAMPAIGNE; EDWARD W. CANNON; ALICE M. CLARK; L. W. COHEN; PHILIP DAVIS; ROBERT D. ELBOURN; JOHN L. HAMMERSMITH; I. HELLER; ALAN HOFFMAN; JOSEPH MCCLOSKEY; DON MITTLEMAN; MORRIS NEWMAN; RUSSELL PERSON; PHILIP RABINOWITZ; CHARLES W. VAN WAY, JR.; JOSEPH WEGSTEIN; JANET L. WILE.

Degree Program

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Arts. See page 62 for information concerning requirements for the degree of Bachelor of Science with major in distributed sciences.

University Requirements 38-43 hours
Students majoring in mathematics are advised to select 15.110 and 15.111 General Chemistry¹ and ² (8) as a part of their University requirements.

Departmental Requirements—

ASSOCIATE IN ARTS

Major courses 12 hours
41.110 College Algebra (3), 41.140 Plane Analytic Geometry (3)
and 41.220 and 41.221 Differential and Integral Calculus¹ and ²
(6).

BACHELOR OF ARTS

Major courses 24 hours
Related courses 12 hours
51.200-201 General Physics¹ and ² (8) and 4 hours of advanced
work in either chemistry or physics.

Electives—

Associate in Arts to complete 63 hours
Bachelor of Arts to complete 126 hours

GRADUATE DEGREES—Master of Arts, Doctor of Philosophy.

MASTER OF ARTS

Course Requirements: Minimum of 30 hours of approved graduate work, 6 of which may be in 41.799 Thesis Seminar-Mathematics (3-6).

Written Comprehensive Examinations: 3, including one in the field of algebra, logic, and number theory; one in the field of analysis; and one in another field of mathematics.

Other Requirements: Thesis.

DOCTOR OF PHILOSOPHY

Course Requirements: Minimum of 72 hours of approved graduate work, 30 of which must be completed in residence at The American University.

Written Comprehensive Examinations: 5, including one in modern algebra or matrix theory; one in functions of real and complex variables; one in the field of the candidate's thesis; and two others in approved fields of mathematics.

Other Requirements: Proficiency examination in two tools of research (ordinarily French and German); thesis and oral examination on thesis.

Undergraduate Courses

- 41.100 MATHEMATICS IN HUMAN AFFAIRS ¹: BASIC OPERATIONS (3)** Basic arithmetic, geometry, algebra. Logarithms and the slide rule. For students not planning to major in mathematics or the physical sciences. FALL. SPRING.
- 41.101 MATHEMATICS IN HUMAN AFFAIRS ² ADVANCED OPERATIONS (3)** Fundamentals of trigonometry. Logarithms applied to trigonometry. Chains of related numbers. Simple problems in business and statistics. Related rates—the basis of calculus. *Prerequisite*, 41.100. SPRING.
- 41.110 COLLEGE ALGEBRA (3-4)** Exponents and logarithms. Mathematical induction and the binomial theorem. Progressions. Permutations and combinations. Mathematical probability. Systems of linear equations. Determinants. SUMMER. FALL.
- 41.140 PLANE ANALYTIC GEOMETRY (3)** Coordinate schemes. Fundamentals of trigonometry. Equations and their loci. Translation and rotation of axes. Lines, circles, parabolas, ellipses, hyperbolas. General second degree loci. *Prerequisite*, 41.110. SPRING.
- 41.160 FUNDAMENTALS OF BUSINESS MATHEMATICS (3)** Basic mathematics for accounting, statistics, finance, etc. Percentages and ratios, logarithms, linear equations, interest and discount, investment accumulation, annuities, amortization, capitalization, sinking funds. Secondary school algebra desirable background. FALL. SPRING.
- 41.162 PLANE TRIGONOMETRY (3)** Trigonometric functions. Functions of multiple, compound angles. Solutions of triangles. Brief introduction to spherical trigonometry. *Prerequisite*, a year of algebra. FALL.
- 41.168 ENGINEERING DRAWING ¹ (2)** Theory of types of projection used in engineering. Practice in free-hand lettering. FALL.
- 41.169 ENGINEERING DRAWING ² (2)** Practice in making working drawings for engineering projects. *Prerequisite*, 41.168. SPRING.
- 41.220 DIFFERENTIAL & INTEGRAL CALCULUS ¹ (3)** Differentiation and integration of polynomial functions. Applications. Differentiation of transcendental functions. Maxima and minima; related rates; velocity and acceleration; Newton's method for approximating roots. *Prerequisite*, 41.140. FALL.
- 41.221 DIFFERENTIAL & INTEGRAL CALCULUS ² (3)** Tracing plane curves. Integration by various substitutions and by parts. Definite integrals, applications. Approximate integration, indeterminate forms. SPRING.
- 41.310 LINEAR ALGEBRA (3)** Determinants, minors, cofactors; systems of linear equations; linear transformations with related operations of matrix algebra; linear, bi-linear, quadratic forms. *Prerequisite*, a course in the calculus. FALL.
- 41.311 THEORY OF EQUATIONS (3)** Complex numbers, real and complex roots of polynomials, solutions of cubic and quartic equations, approximation of incommensurable roots by Newton's and Horner's methods, Symmetric functions. *Prerequisite*, 41.310. 1957 SPRING AND ALTERNATE YEARS.
- 41.320 ADVANCED TOPICS IN THE CALCULUS (3)** Convergent and divergent series. Expansions by Taylor's and MacLaurin's theorems. Hyperbolic functions, partial differentiation, multiple integrals. Use of a table of integrals. *Prerequisite*, 41.221. FALL.
- 41.321 DIFFERENTIAL EQUATIONS (3)** Elementary differential equations, particular solutions and simple applications. Equations of first order, simultaneous equations, linear equations with constant coefficients, special equations of higher order. *Prerequisite*, 41.320. SPRING.
- 41.440 SOLID ANALYTIC GEOMETRY (3)** Coordinate geometry of curves and surfaces in three-dimensional space with emphasis on straight lines, planes, and quadric surfaces. *Prerequisite*, 41.310. 1958 SPRING AND ALTERNATE YEARS.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

- 41.500 FUNDAMENTAL CONCEPTS OF MATHEMATICS (2)** Real number system developed from Peano's axiom for natural numbers and successive extensions through the integers and rational numbers. Concepts of isomorphism, group, ring, field, order, various topological and set-theoretic notions. *Prerequisite*, 41.521. 1957 FALL.
- 41.510 MATRIX THEORY ¹ (2)** Finite dimensional vector spaces. Linear transformations. Matrices. *Prerequisite*, 41.310. 1957 FALL.
- 41.511 MATRIX THEORY ² (2)** Rank. Period. Determinants. Linear equations. Characteristic values. Quadratic forms. *Prerequisite*, 41.511. 1958 SPRING.

- 41.512 **MODERN ALGEBRA**¹ (2) Semigroups and groups; invariant subgroups; factor groups; homomorphisms; rings; integral domains, fields; polynomial rings; principal ideal domains; groups with operators; modulus, ideals; lattices, Boolean algebra. *Prerequisite*, 41.310. 1956 FALL.
- 41.513 **MODERN ALGEBRA**² (2) Linear spaces; matrices and canonical forms; continuous groups; rings and ideals; line or associative algebras. *Prerequisite*, 41.512. 1957 SPRING.
- 41.515 **NUMBER THEORY** (2) Divisibility, prime numbers, number-theoretic functions, residue classes and congruence of numbers, quadratic residues, diophantine equations, the theory of quadratic forms, etc. 1958 SPRING.
- 41.520 **INTRODUCTION TO ANALYSIS**¹ (3) Differential calculus; the real numbers, limits, functions, continuity, differentials, differentiation, mean value theorem, higher order derivatives. Taylor's theorem, infinite series, uniform convergence, partial derivatives, implicit functions. *Prerequisite*, 41.320. FALL.
- 41.521 **INTRODUCTION TO ANALYSIS**² (3) Integral calculus: Stieltjes and Riemann integrals; iterated and multiple integrals; line, surface, space integrals; improper integrals. *Prerequisite*, 41.520. SPRING.
- 41.523 **ORDINARY DIFFERENTIAL EQUATIONS** (2) Linear differential equations with constant coefficients. Existence theorems; linear differential equations of the second order with variable coefficients. Boundary-value problems. Applications. *Prerequisite*, 41.321. 1957 FALL.
- 41.524 **PARTIAL DIFFERENTIAL EQUATIONS** (2) Linear partial differential equations of the first order. Characteristics. Complete integral. Partial differential equations of the second order. Hyperbolic equations. Riemann's method. Elliptic equations. Green's function. Poisson integral. Parabolic equations. *Prerequisite*, 41.523. 1958 SPRING.
- 41.525 **SPECIAL FUNCTIONS** (2) Fundamental properties of Gamma and Bessel functions; Legendre, Hermite, Laguerre, and Chebyshev polynomials. Differential equations, asymptotic expansion, determination of zeros. *Prerequisite*, 41.521. 1958 SPRING.
- 41.528 **VECTOR ANALYSIS** (2) Algebra and calculus of vectors. Theorems of Green, Gauss, Stokes. Applications to space and differential geometry, geometric optics, gravitational potential, mechanics, hydrodynamics, elasticity, electromagnetism. *Prerequisite*, 41.221. 1958 FALL.
- 41.540 **PROJECTIVE GEOMETRY** (2) Projective geometry and its relation to the foundations of Euclidean and non-Euclidean geometry. *Prerequisite*, 41.140. 1956 FALL.
- 41.542 **ALGEBRAIC GEOMETRY** (2) Properties of algebraic correspondences used to develop the projective theory of conics, cubic curves, quadric surfaces, associated loci. *Prerequisite, consent of the instructor*. 1958 SPRING.
- 41.560 **NUMERICAL ANALYSIS**¹: **BASIC PROBLEMS** (2) Interpolation; finite differences; numerical differentiation, integration and approximations by orthogonal functions; least squares; asymptotic representations; difference equations; continued fractions; planning and use of tables; optimum interval tables; differencing. *Prerequisite*, 41.320. 1957 FALL.
- 41.561 **NUMERICAL ANALYSIS**²: **MATRICES** (2) Calculation of inverses of matrices by various methods; iterative processes for solving systems of simultaneous linear equations, and determination of eigenvalues and eigenvectors of a matrix. *Prerequisite*, 41.510. 1958 SPRING.
- 41.562 **NUMERICAL ANALYSIS**³: **ORDINARY DIFFERENTIAL EQUATIONS** (2) Numerical solution of ordinary differential equations of initial value and boundary value types. Introduction to numerical solution of partial differential equations. *Prerequisite, permission of instructor*. 1956 FALL.
- 41.563 **NUMERICAL ANALYSIS**⁴: **PARTIAL DIFFERENTIAL EQUATIONS** (2) Sturm-Liouville problems: expansion theorem, maximum-minimum properties, including theorems, asymptotic behavior. Numerical methods: iteration methods, Rayleigh-Ritz method, remarks on difference methods. *Prerequisite*, 41.568. 1957 SPRING.
- 41.565 **CALCULUS OF FINITE DIFFERENCES** (3) Differences, interpolation, expansion of functions, especially in factorial form. Summation, generating functions, and difference equations. Numerical integration, graduation, and other approximations. *Prerequisite*, 41.221. 1957 FALL.
- 41.566 **ADVANCED DESIGN & USE OF MODERN COMPUTING MACHINERY**¹ (2) Electronic computer systems and components: arithmetic unit, internal memory, control, input-output devices. Electronic design of storage and gating units. Number representations and number codes. Boolean algebra and computer systems design. *Prerequisite, bachelor's degree with major in electrical engineering, mathematics, physics or equivalent*. 1956 FALL.
- 41.567 **ADVANCED DESIGN & USE OF MODERN COMPUTING MACHINERY**² (2) Contemporary advances in basic components, in logical design, and in automatic programming of computers. Specialized applications. *Prerequisite*, 41.566. 1957 SPRING.
- 41.568 **ELECTRONIC DIGITAL COMPUTER PROGRAMMING**¹ (2) Components of a general purpose computer, terminology, binary number system, computer words as numbers and instructions, single and multiple address logic, preparation of simple codes for various computers, sub-routines, analysis of problems for computers, scaled operations, flow diagrams, code checking techniques, solution of problems. *Prerequisite*, 41.221. 1957 FALL.
- 41.569 **ELECTRONIC DIGITAL COMPUTER PROGRAMMING**² (2) Advanced coding techniques, use of pseudo codes, interpretive routines, floating point operations, double precision operations, input conversion routines, service routines, automatic coding, various automatic coding systems now in use. *Prerequisite*, 41.568. 1958 SPRING.
- 41.574 **THEORY OF PROBABILITY**¹ (4) Foundations of theory of probability. Random variables. Distribution functions. Numerical characterizations of random variable by moments. Multivariate distributions. Generating and characteristic functions. *Prerequisite*, 41.521. 1956 FALL.
- 41.575 **THEORY OF PROBABILITY**² (4) Special distributions, addition of independent random variables, Markoff chains, transition probabilities, ergodic properties, simple continuous Markoff processes, the Chapman-Smoluchowsky and Fokker-Plank equations. *Prerequisite*, 41.574. 1957 SPRING.

- 41.577 **INFORMATION THEORY** (2) Quantitative discussion of the amount of information in a message, and the rate at which information is communicated. Practical results for communication in the presence of noise. 1958 FALL.
- 41.582 **THEORY OF GAMES**¹ (2) Zero-sum two-person games in matrix form; existence, nature of good strategies, computation of solutions; linear programming; games in extensive form; games with infinite number of pure strategies; introduction to n-person games. *Prerequisite*, 41.510. 1958 FALL.
- 41.583 **THEORY OF GAMES**² (2) Linear programming; games in extensive form; games with an infinite number of pure strategies; an introduction to n-person games. *Prerequisite*, 41.582. 1959 SPRING.
- 41.611 **COMBINATORIAL ANALYSIS** (2) Permutations, combinations, recursion formulas, generating functions, symmetric functions, partitions, finite geometries, incidence matrices. Applications to Latin squares, Steiner triples, block diagrams, etc. *Prerequisite*, 41.511. 1958 FALL.
- 41.612 **INEQUALITIES** (2) Introduction to the precise thinking involved in mathematical analysis. Various proofs of the fundamental inequalities: arithmetic and geometric means, those of Schwarz, Holder, Minkowski, and Chebyshev. Convex functions. Inequalities involving quadratic and bilinear forms. *Prerequisite*, 41.521. 1959 SPRING.
- 41.613 **GALOIS THEORY** (2) Fundamental theorem of Galois theory, application of group theory to problems in theory of algebraic equations, especially solvability by radicals and ruler and compass constructions. *Prerequisite*, some knowledge of group theory. 1957 FALL.
- 41.620 **COMPLEX VARIABLES**¹ (3) Basic definition, necessary topological concepts, differentiation and integration of functions of a complex variable. Cauchy's theorem, Taylor and Laurent series, the elementary functions. *Prerequisite*, 41.521. 1957 FALL.
- 41.621 **COMPLEX VARIABLES**² (3) Calculus of residues, singularities, analytic continuation. Entire functions, conformal mapping, various special functions, periodic functions, multiple valued functions, Riemann surfaces. *Prerequisite*, 41.620. 1958 SPRING.
- 41.622 **REAL FUNCTIONS**¹: **THEORY OF POINT SETS** (2) Introduction to the theory of classes and point sets, including such topics as the general theory of sets and transfinite numbers; set functions; Euclidean, metric, general topological spaces. *Prerequisite*, 41.521. 1956 FALL.
- 41.623 **REAL FUNCTIONS**²: **THEORY OF MEASURE** (2) Additive functions of a set. Outer measure. Measure. Inner measure. Transformations leaving measure invariant. Covering theorems. Non-measurable functions. Fundamental properties of Lebesgue integrals. Applications. *Prerequisite*, 41.622. 1957 SPRING.
- 41.624 **METHODS OF OPERATIONS RESEARCH** (2) The decision-making process; theories of decision; information theory; search theory; queuing theory. Applications of these theories and of other methods of mathematics to the physical and social sciences. *Prerequisite*, permission of the instructor. 1958 SPRING.
- 41.625 **CALCULUS OF VARIATIONS** (2) Problems of the calculus of variations. Euler equations. Natural boundary conditions. The second variation. Relative extrema and isoperimetric problems with variables and points. *Prerequisite*, 41.521. 1957 FALL.
- 41.626 **INTEGRAL EQUATIONS OF THE FIRST KIND** (2) Introduction and simple examples. Orthogonal systems of functions. Fourier's integral transform and related integral equations. General theory. Special types. Volterra integral equations of the first kind. *Prerequisite*, 41.521. 1958 FALL.
- 41.627 **INTEGRAL EQUATIONS OF THE SECOND KIND** (2) Integral equations of the Volterra type. Integral equations of the second kind with square integrable kernels. Applications to boundary-value problems. Integral equations of the Hermite type. Applications. *Prerequisite*, 41.626. 1959 SPRING.
- 41.628 **MODERN THEORY OF ORDINARY DIFFERENTIAL EQUATIONS** (2) Introduction to the qualitative theory of differential equations; stability criteria, existence of forced periodic solutions, perturbation methods. *Prerequisite*, 41.521. 1957 FALL.
- 41.629 **ORDINARY DIFFERENTIAL EQUATIONS: FUCHSIAN THEORY** (2) Existence theorem, equations with constant coefficients, equations with uniform analytic coefficients, regular singularities, Laplace transform, hypergeometric equations, Lamé's equations, Mathieu's equation. *Prerequisite*, 41.621. 1958 SPRING.
- 41.630 **THEORY & APPLICATIONS OF INTEGRAL TRANSFORMS**¹ (2) Laplace-Fourier-Hankel-Mellin and other transforms; boundary value problems. *Prerequisite*, 41.621. 1956 FALL.
- 41.631 **THEORY & APPLICATIONS OF INTEGRAL TRANSFORMS**² (2) Applications of integral transforms to boundary-value problems. Heat conduction and elasticity problems. Application to number theory. *Prerequisite*, 41.630. 1957 SPRING.
- 41.654 **PARTIAL DIFFERENTIAL EQUATIONS OF MATHEMATICAL PHYSICS**¹ (2) Partial differential equations in general; Gauss's function; boundary-value problems; eigenvalue and eigen function problems of electromagnetic and acoustic radiation. *Prerequisite*, 41.521. 1956 FALL.
- 41.655 **PARTIAL DIFFERENTIAL EQUATIONS OF MATHEMATICAL PHYSICS**² (2) Series expansions of arbitrary functions; vibration and eigenvalue problems; special functions defined by eigenvalue problems. *Prerequisite*, 41.654. 1957 SPRING.
- 41.710 **SEMINAR: ALGEBRA** (2) Research in algebra with special reference to work leading to numerical problems, particular attention being paid to the interests of students. *Prerequisite*, permission of the instructor. FALL.
- 41.720 **SEMINAR: ANALYSIS** (2) Recent research work in analysis, especially numerical analysis, particular attention being paid to the interests of students. *Prerequisite*, permission of the instructor. SPRING.
- 41.799 **THESIS SEMINAR IN MATHEMATICS** (3-6)

Music

Professor: JAMES L. McLAIN (Chairman). *Associate Professor:* GORDON SMITH.
Assistant Professors: GEORGE STEINER; EVELYN SWARTHOUT. *Lecturers:* FRED BEGUN;
 RICHARD DIRKSEN; WALLACE MANN; SYLVIA MEYER; VERA ROSS; JOHN UPHAM;
 HAROLD WRIGHT.

Degree Programs

UNDERGRADUATE DEGREES—Bachelor of Arts (majors in applied music, music history and literature, public school music, or music theory). For information concerning Associate Degree programs consult the department chairman.

University Requirements 38-43 hours

Departmental Requirements—All students majoring in music should enroll in 43.251-252 Chorus¹ and ² (2) or 43.253-254 Orchestra¹ and ² (2) during each year.

APPLIED MUSIC

(Orchestral instruments, piano and organ, or voice)

Major courses 40-47 hours

16 hours in music theory, 6 hours of music history, 3 hours in music form and analysis (for students specializing in orchestral instruments or piano or organ), 18 hours in the instrument of specialization or voice, up to 4 hours in piano (as required) except for students of piano and organ.

Related courses 12 hours

Tool courses 6-12 hours

6 hours of foreign language for those specializing in orchestral instruments or piano and organ, 12 hours of foreign language (French and German) for those specializing in voice.

MUSIC HISTORY AND LITERATURE

Major courses 40 hours

16 hours in music theory, 15 hours in music history and literature, 6 hours in applied music, 3 hours in music form and analysis.

Related courses 12 hours

Tool courses 12 hours

6 hours of French and German.

MUSIC THEORY

Major courses 40-44 hours

16 hours in music theory, 15 hours in advanced theoretical subjects, 6 hours in music history, 3 hours in music literature, up to 4 hours in piano (as required).

Related courses 12 hours

Tool courses 6 hours

Foreign language.

PUBLIC SCHOOL MUSIC

Major courses 30 hours
Including 16 hours in music theory, 6 hours in music history.

Related courses 36 hours
Including 24 hours in courses in education.

Tool courses 6 hours
Foreign language.

Electivesto complete 126 hours

GRADUATE DEGREE—Master of Arts.

Course Requirements: Minimum of 30 hours of approved graduate work, which may include 6 hours of 43.799 Thesis Seminar-Music (3-6).

Written Comprehensive Examinations: 3, including one in music history, music literature, or composition; one in another of these fields; and one in a related field.

Other Requirements: Thesis, public recital of professional character and written research report in the fields of music history or literature related to the recital, or composition of a work in one of the larger forms of music and written analysis or public performance of the composition.

Undergraduate Courses

- 43.101 **ELEMENTARY THEORY (4)** Course integrated to include harmony, ear-training, and sight singing. Chord construction, triads, and inversions. Simple rhythmic, melodic and harmonic dictation. FALL.
- 43.102 **ELEMENTARY THEORY (4)** Dominant and secondary seventh chords. Non-chordal tones, simple modulations. Extended rhythmic, melodic, and harmonic dictation. *Prerequisite*, 43.101. SPRING.
- 43.201 **APPRECIATION OF MUSIC (3)** Materials of music as they relate to listening. Survey of principal forms through a study of representative works. Aural analysis. SUMMER. FALL.
- 43.202 **APPRECIATION OF MUSIC (3)** Critical survey of composers and styles of the classical, romantic, and modern periods. Aural analysis. SUMMER. SPRING.
- 43.203 **ADVANCED THEORY (4)** Advanced harmony and ear-training. Ninth, eleventh, and thirteenth chords. Extended modulations. Advanced rhythmic, melodic, and harmonic dictation. *Prerequisite*, 43.202. FALL.
- 43.204 **ADVANCED THEORY (4)** Altered chords, dissonances, extended modulations, 20th century technics. Contrapuntal and advanced rhythmic, melodic, and harmonic dictation. Keyboard harmony. *Prerequisite*, 43.203. SPRING.
- 43.205 **ELEMENTARY CONDUCTING ¹ (1)** Practical study of the technics of the baton. *Prerequisite*, permission of the departmental chairman.
- 43.206 **ELEMENTARY CONDUCTING ² (1)** Continuation of practical study of the technics of the baton. Introduction to score reading. *Prerequisite*, 43.205 or permission of the department chairman. SPRING.
- 43.250 **CLASS INSTRUMENTAL STUDY (1)** A two-session course. Class instruction in use of orchestral instruments. Preparation for teaching. Primarily for students of public school music. FALL. SPRING.
- 43.251 **CHORUS ¹ (1)** Preparation and presentation of representative works from great choral literature of all periods. *Prerequisite*, individual audition before the director. FALL.
- 43.252 **CHORUS ² (1)** Continuation of 43.251. *Prerequisite*, 43.251 or individual audition before the director. SPRING.
- 43.253 **ORCHESTRA ¹ (1)** Preparation and presentation of great orchestral literature of all periods. *Prerequisite*, individual audition before the director. FALL.
- 43.254 **ORCHESTRA ² (1)** Continuation of 43.253. *Prerequisite*, 43.253 or audition before the director. SPRING.
- 43.301 **HISTORY OF MUSIC ¹ (3)** Development of music in western civilization from the modal structures of the Greeks to the Baroque era. *Prerequisite*, 43.202 or permission of department chairman. FALL.

- 43.302 HISTORY OF MUSIC² (3)** Development of music in western civilization from the Baroque era to the present day. *Prerequisite*, 43.301. SPRING.
- 43.303 COUNTERPOINT¹ (3)** Strict counterpoint in the various species in two and three parts. *Prerequisite*, 43.102 or *permission of department chairman*. 1956 FALL.
- 43.304 COUNTERPOINT² (3)** Strict counterpoint in the various species in four and five parts. Free counterpoint. *Prerequisite*, 43.303. 1957 SPRING.
- 43.305 ORCHESTRATION (3)** Scoring for instrumental groups. Arrangements for orchestra from piano and vocal scores. *Prerequisite*, 43.204 or *permission of department chairman*. SPRING.
- 43.306 FORM & ANALYSIS (3)** Harmonic and formal analysis of representative master works from all periods. *Prerequisite*, 43.204 or *permission of department chairman*. FALL.
- 43.307 ADVANCED CONDUCTING¹ (1)** Score reading. Special technics for instrumental groups. Rehearsal routines. *Prerequisite, permission of department chairman*. FALL.
- 43.308 ADVANCED CONDUCTING² (1)** Score reading. Special technics for choral and instrumental groups. Rehearsal routines. *Prerequisite*, 43.307 or *permission of department chairman*. SPRING.
- 43.402 THE CLASSIC ERA (3)** The preclassical schools. Haydn, Mozart, and Beethoven, masters of the classical style. Intensive study of the lives and music of each. *Prerequisite*, 43.302 and *permission of department chairman*. SPRING.
- 43.403 THE ROMANTIC PERIOD (3)** Historical and cultural background. Intensive study of composers and works with emphasis on individual styles. *Prerequisite*, 43.302 and *permission of department chairman*. FALL.
- 43.405 COMPOSITION¹ (3)** Study, through discussion and demonstration, of the creative processes in music. Guidance in the construction of original compositions in the smaller forms. Analysis of representative works in these forms. *Prerequisite, permission of department chairman*. FALL.
- 43.406 COMPOSITION² (3)** Original work in classic, romantic, and modern idioms. Work adapted to individual needs and talents. *Prerequisite, permission of department chairman*. SPRING.
- *43.410 PIANO LESSONS (1-2)** SUMMER. FALL. SPRING.
- *43.411 ORGAN LESSONS (1-2)** SUMMER. FALL. SPRING.
- *43.412 VOICE LESSONS (1-2)** SUMMER. FALL. SPRING.
- *43.413 ORCHESTRAL INSTRUMENTS LESSONS (1-2)** SUMMER. FALL. SPRING.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

- 43.501 THE BAROQUE ERA (3)** Study of the thorough-bass period. Development of styles and technics leading to Bach and Handel, the culminating masters of the Baroque. FALL.
- 43.502 MUSIC OF THE 20th CENTURY (3)** Development of modernism in music from impressionism to the present. Schools, technics, trends. SPRING.
- 43.507 ANALYTICAL STUDIES IN MUSICAL LITERATURE (3)** Contrapuntal, harmonic, and structural analysis of music of various styles, forms, and media. May be repeated for credit. FALL AND SPRING.
- 43.601 RENAISSANCE MUSIC (3)** Study of role in the history of music with detailed analysis of representative works. FALL.
- 43.602 SEVENTEENTH CENTURY MUSIC (3)** Study of role in the history of music with detailed analysis of representative works. SPRING.
- 43.605 ADVANCED COMPOSITION (3)** Guidance in writing in specified large forms. Work adapted to individual needs and talents. May be repeated for credit. FALL. SPRING.
- 43.799 THESIS SEMINAR IN MUSIC (3-6)**

*Special fees are charged in addition to the usual tuition. Fulltime undergraduate majors in music pay a fee of \$50 a session for one hour of lessons a week. All other students pay a fee of \$45 a session for one-half hour of lessons a week. The charge is the same whether or not academic credit is desired. Practice rooms may be used for an additional fee of \$5 a session.

Nursing Education*

Assistant Professor: GLADYS V. JORGENSEN. *Lecturers:* EMMA LAYMAN; REGINALD LOURIE; ROSALIND WANG.

Degree Programs

UNDERGRADUATE DEGREES—A program leading to the degree of Bachelor of Arts with major in nursing education is available to students who have completed their professional nursing training and have been certified as registered nurses. Advanced credit up to 30-36 hours may be granted for their professional training and applied toward the total of 126 hours required for a degree. Students qualify for the bachelor's degree upon completion of additional University and departmental requirements described below.

University Requirements 38-43 hours

Departmental Requirements—

Major courses 15 hours

45.300 Foundations of Nursing Education (2), 45.301 Social and Health Aspects of Nursing (2), 45.420 and 45.421 Teaching Nursing in Clinical Fields¹ and ² (4), and 45.420 and 45.421 Administration of the Hospital Nursing Unit¹ and ² (4).

Related courses 24 hours
Psychology, sociology.

Tool courses 3 hours
23.170 Voice and Diction (3).

Electives to complete 126 hours

Undergraduate Courses

- 45.300 FOUNDATIONS OF NURSING EDUCATION (2)** Historical survey of foundations, present status, and trends in nursing education. FALL.
- 45.301 SOCIAL & HEALTH ASPECTS OF NURSING (2)** Philosophy of individualized patient care with integration of social, economic, psychological factors involved. Community resources available to the hospital patient for maintenance of health. SPRING.
- 45.410 TEACHING NURSING IN CLINICAL FIELDS¹ (2)** Functions and responsibilities of clinical instructor; content and methods for the clinical course; planned program of experience for students; measurement of student attainment. FALL.
- 45.411 TEACHING NURSING IN CLINICAL FIELDS² (2)** Continuation of 45.410, which is prerequisite to this course. SPRING.
- 45.420 ADMINISTRATION OF THE HOSPITAL NURSING UNIT¹ (2)** Principles, problems, methods of organization of hospital nursing unit. Functions of head nurse in hospital organization and in community health program. FALL.
- 45.421 ADMINISTRATION OF THE HOSPITAL NURSING UNIT² (2)** Continuation of 45.420, which is prerequisite to this course. SPRING.
- 45.440 NURSING OF CHILDREN (3)** Care of children in health and in illness. Emphasis on total needs of the child. Recent trends, developments in pediatric nursing. Offered as required.
- 45.442 NURSING OF CHILDREN—MEDICAL & SURGICAL ASPECTS (3)** Causes, symptoms, treatment, prevention, control and management of disease conditions peculiar to childhood. Offered as required.

* The University also offers courses at Children's Hospital of the District of Columbia during two 26-week periods (September-March and April-September) for registered nurses enrolled in the Hospital's training program. Courses offered are: 54.301 SOCIAL AND HEALTH ASPECTS OF NURSING (2), 45.401-411 TEACHING NURSING IN CLINICAL FIELDS (4), 45.420-421 ADMINISTRATION OF THE HOSPITAL NURSING UNIT (4), 45.440 NURSING OF CHILDREN (3), 45.442 NURSING OF CHILDREN—MEDICAL AND SURGICAL ASPECTS (3), and 57.400 PSYCHOLOGY OF THE CHILD (3). For information concerning this program consult the Office of the Assistant to the President.

Philosophy and Religion

Professors: JOHN E. BENTLEY; RALPH C. JOHN (Chairman). *Associate Professor:* HAROLD A. DURFEE. *Professorial Lecturers:* CARL G. HOWIE; ARTHUR W. HUMMEL. *Lecturers:* A. BALFOUR BRICKNER; F. REID ISAAC.

Degree Programs

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Arts. A degree may be earned with philosophy and religion as a composite major or with a specialization in either philosophy, religion, or religious education.

University Requirements 38-43 hours

Students majoring in philosophy and religion are advised to complete 57.200 General Psychology (3) and 65.201 Introduction to Anthropology (3) as a part of their University requirements.

Departmental Requirements—

ASSOCIATE IN ARTS

Major courses 12 hours

BACHELOR OF ARTS

Major courses 24-30 hours

Students majoring in philosophy and/or religion complete 24 hours. Students majoring in religious education complete 30 hours.

Related courses 12 hours

Tool courses 0-6 hours

French or German are recommended.

Electives—

Associate in Arts to complete 63 hours

Bachelor of Arts to complete 126 hours

Undergraduate Courses

- 47.150 INTRODUCTION TO THE OLD TESTAMENT (3)** Emphasis upon the substantive content of the Bible. Special attention to the historical method and the canons of Biblical interpretation. FALL.
- 47.200 LOGIC & THE SCIENTIFIC METHOD (3)** Introduction to the nature of valid inference and its relation to the scientific method. Principles of reasoning; inductive and deductive processes of logical thinking. FALL.
- 47.201 INTRODUCTION TO PHILOSOPHY (3)** Questions man has asked about himself, the world, and the origin, purpose, and destiny of life; representative answers given by the great thinkers. Prerequisite to all advanced courses in philosophy. FALL. SPRING.
- 47.250 LIFE & TEACHINGS OF JESUS (3)** Study of the career and teachings of Jesus of Nazareth. Nature and significance of His life for the history of mankind. FALL.
- 47.251 LIFE & LETTERS OF PAUL (3)** Life, letters, missionary activities of Paul. The Pauline epistles with special reference to the writer's conception of human nature, the incarnation, the Christian life, and eschatology. SPRING.
- 47.300 HISTORY OF PHILOSOPHY ¹: ANCIENT & MEDIEVAL (3)** Historical survey of representative philosophers from the early Greeks through the Renaissance. Place of philosophical ideas in the rise of western culture. Not open to freshmen. FALL.
- 47.301 HISTORY OF PHILOSOPHY ²: MODERN (3)** Philosophers from Descartes to Dewey. Appraisal of modern philosophical tendencies in their relation to scientific, social, political, and religious developments. Not open to freshmen. SPRING.
- 47.303 AMERICAN PHILOSOPHY (3)** Backgrounds and substance of American philosophy since colonial times. Role of philosophical ideas, European and indigenous, in the growth of the American spirit and culture. *Prerequisite, previous course in philosophy.* SPRING.

- 47.305 PHILOSOPHIES OF THE EAST (3)** Systems of thought in the East from ancient to modern times. Special emphasis upon philosophies of Confucianism, Taoism, Hinduism, and Buddhism. 1957 FALL AND ALTERNATE YEARS.
- 47.320 INTRODUCTION TO RELIGIOUS EDUCATION (3)** Educational task of the modern church. Critical study of objectives, methods, organization, programs for various age levels. Field projects. 1956 FALL AND ALTERNATE YEARS.
- 47.330 HISTORY & PHILOSOPHY OF RELIGIOUS EDUCATION (3)** Development of the educational process in synagogue and church. Emergence of guiding concepts and institutions; contemporary issues. 1957 FALL AND ALTERNATE YEARS.
- 47.331 CURRICULUM FOR RELIGIOUS EDUCATION (3)** Principles for curriculum construction. Survey and evaluation of materials used in the churches; practice in curriculum writing. 1957 SPRING AND ALTERNATE YEARS.
- 47.332 WORKING WITH CHILDREN IN THE CHURCH (3)** Analysis of religious needs and possibilities in the development of the child. Consideration of resource materials, leadership, equipment, church-home relationships. 1958 SPRING AND ALTERNATE YEARS.
- 47.350 CLASSICS OF CHRISTIAN EXPERIENCE (3)** Selected Christian classics from the time of Saint Augustine to the present. Meaning of religion and its individual and social expression through masterpieces of religious literature. 1956 FALL AND ALTERNATE YEARS.
- 47.351 CHURCH HISTORY ¹: SAINT PAUL TO THE REFORMATION (3)** Growth and organization of the early Christian Church. Interaction of the church with secular cultures and ideologies. Rise of the Papacy; monasticism; missionary activity; development of doctrine. FALL.
- 47.352 CHURCH HISTORY ²: MODERN (3)** The Reformation and its leaders. Conflict of church and state. Church history from the Protestant separation to the modern ecumenical movement. SPRING.
- 47.353 COMPARATIVE RELIGION (3)** Synoptic study of the world's living religions, their founders, literature, teachings, and values. Relationship of these religions to the life, thought, and institutions of the people whom they influence. SPRING.
- 47.354 CHRISTIAN BELIEF (3)** Christian apologetics and its place in the intellectual interest of modern man. Introductory examination of Christian beliefs about God, the Bible, revelation, human nature, and destiny. FALL.
- 47.360 HISTORY OF JUDAISM (3)** The development of Judaism from the Maccabean period to the present. Selected philosophical, theological, institutional movements in Jewish faith and practice. SPRING.
- 47.380 PSYCHOLOGY OF RELIGION (3)** Psychological appraisal of religious experience; prayer, worship, belief, inter-personal relationships, religious practices and behavior. SPRING.
- 47.400 PHILOSOPHY OF RELIGION (3)** Nature of religion and the validity of its approach to experience and reality. Fundamental problems: good and evil, freedom and restraint, reason and revelation, faith, immortality, and God. FALL.
- 47.402 ETHICS (3)** Inquiry into the principles of moral valuation, their relation to factual judgment, and individual and social behavior. Evaluation of traditional schools and theories of ethics. *Prerequisite, permission of department.* SPRING.

Graduate Course

(500-level courses are also open to advanced undergraduate students)

- 47.510 ESTHETICS (3)** Nature of beauty and the relation of the philosophy of the beautiful to the fine arts and to human experience. Representative thinkers from Plato to Santayana and Dewey. FALL.

Physical Education

Assistant Professors: VIRGINIA HAWKE; RUTH McFEETER; HUGO SCHULZE (Chairman). *Instructor:* ROBERT H. FRAILEY.

Degree Programs

The University offers no major in physical education but courses offered by the department may be used to complete related fields requirements in the undergraduate degree programs of other departments and to meet state certification requirements for secondary school teachers of physical education. Students interested in teaching in this field should consult the chairmen of the departments of Education and of Physical Education before planning their programs.

Undergraduate Courses

- 49.101 REQUIRED PHYSICAL EDUCATION—PERSONAL HEALTH (1)** Survey of problems in community and personal health; emphasis on human development and external and internal forces which shape our lives. *Must be taken by all fulltime undergraduate students during the fall or spring session of the first year.* FALL. SPRING.
- 49.102-103-104 REQUIRED PHYSICAL EDUCATION—ACTIVITIES (1)** Program stresses outdoor activities in October and November, indoor activities in December and January. Students participate in two different activities. Activities during the fall session include archery, badminton, basketball, bowling, dancing, fencing, field hockey, golf, life saving, swimming, and tennis. Activities during the spring session include badminton, basketball (women), bowling, canoeing (continues throughout the session), dancing, golf, life saving, swimming, volleyball (women). To complete 4-hour physical education requirements, fulltime undergraduates register for 49.101 and 49.102 in their first year, for 49.103 in first session of second year, and for 49.104 in second session of second year. Required physical education courses must be completed by the end of the second year. FALL. SPRING.
- 49.120 FIRST AID, SAFETY EDUCATION & ATHLETIC TRAINING (3)** First aid, athletic training, and treatment of conditions which legitimately fall in the sphere of the non-medical director. Causes, means of preventing accidents. Prerequisite to all courses in the department. 1957 FALL AND ALTERNATE YEARS.
- 49.121 HISTORY & PRINCIPLES OF HEALTH & PHYSICAL EDUCATION (3)** Development, purpose, and scope of health, physical education, and recreation. Relation of principles of physical education to the school curriculum. 1958 SPRING AND ALTERNATE YEARS.
- 49.220 LEADERSHIP IN PHYSICAL EDUCATION (2)** Methods, theories, and techniques of teaching physical education classes and of organizing and supervising recreational activities. Prerequisite, 49.121. 1956 FALL AND ALTERNATE YEARS.
- 49.221 ORGANIZATION & ADMINISTRATION OF INTRAMURAL ATHLETICS (2)** Theory and practice in the construction and administration of intramural sports programs. Extensive study of secondary school and college programs and equipment. Prerequisite, 49.220. 1958 SPRING AND ALTERNATE YEARS.
- 49.222 LEADERSHIP PROCEDURE (3)** Practical application of teaching procedures in adapting motor activities to the physical education program. Prerequisite, minimum of 12 credits in physical education. Required of all majors in physical education. 1957 SPRING AND ALTERNATE YEARS.
- 49.223 ELEMENTARY SCHOOL RHYTHMIC ACTIVITIES (2)** Survey of use of, accepted methods of teaching basic rhythms, singing games, folk and square dancing at the elementary school level. 1957 FALL AND ALTERNATE YEARS.
- 49.320 KINESIOLOGY (4)** Science of bodily movement. Study of principal types of muscular exercise. Body mechanics in relation to posture, exercise, and sports. Prerequisite, 9.116. 1957 FALL AND ALTERNATE YEARS.
- 49.321 RECREATION PROGRAMS (3)** Principles and policies of recreation agencies with attention to administration, legislation, centers, equipment, personnel, and program. 1956 FALL AND ALTERNATE YEARS.
- 49.322 RULES AND OFFICIATING (2)** Intensive study of rules of intercollegiate, intramural, and interscholastic sports. Techniques and methods of officiating with practice under supervision. 1958 SPRING AND ALTERNATE YEARS.
- 49.323 COACHING MINOR SPORTS (3)** Principles, methods, and strategy used in coaching minor sports. Fundamentals, systems, and equipment used by coaches. 1957 SPRING AND ALTERNATE YEARS.
- 49.324 COACHING MAJOR SPORTS (3)** Principles, methods, and strategy used in coaching major sports. Fundamentals, systems, and equipment used by coaches. 1956 FALL AND ALTERNATE YEARS.

- 49.420 TESTS & MEASUREMENTS IN PHYSICAL EDUCATION (3)** Introduction to the use and interpretation of measurement techniques in physical education administration, survey of tests and measurements. *Prerequisite, 69.200 General Psychology.* Not offered 1956-1958.
- 49.421 ORGANIZATION & ADMINISTRATION OF PHYSICAL EDUCATION & ATHLETICS (3)** Departmental personnel, schedules, equipment, plant, and related problems. 1957 SPRING AND ALTERNATE YEARS.
- 49.422 HEALTH EDUCATION (3)** Seminar in advanced health education planned to meet state teaching requirements. School and community hygiene. 1957 SPRING AND ALTERNATE YEARS.
- 49.425 DRIVER EDUCATION (1)** Techniques, methods, materials for secondary school teachers of driver education. SUMMER.
- 49.426 TRAFFIC SAFETY EDUCATION WORKSHOP (1)** Techniques, methods, materials in pedestrian protection, elementary safety education, traffic engineering, advanced driver education. SUMMER.

Physics

Professor: BANCROFT W. SITTERLY (Chairman). *Professorial Lecturer:* PAUL KALAVSKI.

Degree Programs

UNDERGRADUATE DEGREE—Bachelor of Science. For information concerning Associate Degree programs consult the department chairman. See page 62 for information concerning requirements for the degree of Bachelor of Science with major in distributed sciences.

University Requirements 38-43 hours
Students majoring in physics are advised to complete 51.200 and 51.201 General Physics¹ and ² (8) as a part of their University requirements.

Departmental Requirements—Students must complete 41.110 College Algebra and 41.140 Plane Analytic Geometry before they may register for 51.200 General Physics¹ and they must complete 41.220 and 41.221 Differential and Integral Calculus (6) before they may register for courses in the department at the 300- or 400-level. Students majoring in physics are advised to complete 41.110 and 41.140 in their first year and to complete 41.200 and 41.221 and 51.200 and 51.201 concurrently during their second year.

Major courses 33-36 hours

51.200 and 51.201 General Physics¹ and ² (8), 51.300 Electricity & Magnetism (4), 51.303 Atomic & Nuclear Physics (3), 51.304 Principles of Mechanics (3), 51.307 Physical Measurements (3), and 12-15 additional hours in physics.

Related courses 12 hours

15.110 and 15.111 General Chemistry¹ and ² (8) and 4 hours in another laboratory science.

Tool courses 15 hours

41.110 College Algebra (3), 41.140 Plane Analytic Geometry (3), 41.220 and 41.221 Differential and Integral Calculus¹ and ² (6), 41.320 Advanced Topics in the Calculus (3), and 41.321 Differential Equations (3).

Electives to complete 126 hours

Undergraduate Courses

- 51.100 PHYSICAL SCIENCE: ENERGY (3)** Concept of energy and related concepts of physics in fields of mechanics, heat, electricity, radiant energy, nuclear energy. Demonstrations; no laboratory. SUMMER. FALL. SPRING.
- 51.200 GENERAL PHYSICS¹ (4)** Mechanics, heat, sound; properties of waves and matter. 3 hours of lecture, 3 hours of laboratory. Laboratory fee, parttime students, \$5. 1956 SUMMER. FALL.
- 51.201 GENERAL PHYSICS² (4)** Electricity and magnetism, light, modern physics. *Prerequisite*, 51.200. 3 hours of lecture, 3 hours of laboratory. Laboratory fee, parttime students, \$5. 1956 SUMMER. SPRING.
- 51.300 ELECTRICITY & MAGNETISM (4)** Electric charges, forces, fields. Magnetic and electromagnetic phenomena. Direct current circuits. 3 hours of lecture, 3 hours of laboratory. Laboratory fee, parttime students, \$5. FALL.
- 51.301 ALTERNATING & TRANSIENT CURRENTS (4)** Inductance and capacitance in alternating current circuits. Impedance and resonance; oscillating circuits. Impedance matching; attenuators and filters. *Prerequisite*, 51.300. 3 hours of lecture, 3 hours of laboratory. Laboratory fee, parttime students, \$5. 1956 SPRING AND ALTERNATE YEARS.
- 51.303 ATOMIC & NUCLEAR PHYSICS (3)** X-rays; electrons; atomic structure, atomic spectra. Radioactivity; nuclear particles, processes, structure. *Prerequisite*, 51.300. 1957 SPRING AND ALTERNATE YEARS.

- 51.304 PRINCIPLES OF MECHANICS (3)** Plane statics. Elasticity. Dynamics of a particle, a fluid, a rigid body. Central forces and gravitation. FALL.
- 51.305 APPLIED STATICS (3)** Systems of forces; moments; center of gravity. Stress and strain. Framed structures, beams, cables. Problem course primarily for pre-engineering students. *Prerequisite*, 51.304. SPRING.
- 51.307 PHYSICAL MEASUREMENTS (3)** Theory and methods of measurement; measures of precision; investigation of errors. Performance and analysis of selected experiments. 2 hours of lecture, 3 hours of laboratory. Laboratory fee, parttime students, \$5. SPRING.
- 51.401 SOUND & ACOUSTICS (3)** Theory of wave motion; production, propagation, and detection of sound waves with applications to music and speech; acoustical measurements; acoustics of auditoriums and broadcasting stations. 1957 SPRING AND ALTERNATE YEARS.
- 51.402 OPTICS (3)** Lenses, lens systems; optical instruments. Interference, diffraction, polarization. Nature and propagation of light. 1956 FALL AND ALTERNATE YEARS.
- 51.404 ELECTRONICS ¹ (4)** Theory of electron tubes and associated circuits. Equivalent circuit analysis of audio and feedback amplifiers, reactance tubes, oscillators, modulators, and detectors. *Prerequisite*, 51.301. 3 hours of lecture, 3 hours of laboratory. Laboratory fee, parttime students, \$5. 1956 FALL AND ALTERNATE YEARS.
- 51.405 ELECTRONICS ² (4)** Application of electronic principles to design and use of such devices as power supplies, voltage regulators, rectifiers, filters, multivibrators, photoelectric cells, and electron-tube instruments. *Prerequisite*, 51.404. 3 hours of lecture, 3 hours of laboratory. Laboratory fee, parttime students, \$5. 1957 SPRING AND ALTERNATE YEARS.
- 51.408 PHYSICAL THEORY: CLASSICAL (3)** Topics in mechanical and electromagnetic theory. Vector methods; potential; Lagrange's and Hamilton's equations. Electromagnetic field; Maxwell's equations. *Prerequisite*, 51.303, 51.304, 41.321 *Differential equations*. 1957 FALL AND ALTERNATE YEARS.
- 51.409 PHYSICAL THEORY: QUANTUM (3)** Origins of the quantum theory. Introduction to wave mechanics. Quantum theory of atomic structure. Other applications. *Prerequisite*, 51.408. 1958 SPRING AND ALTERNATE YEARS.
- 51.410 INTERMEDIATE LABORATORY (1)** Selected experiments to accompany intermediate courses in mechanics, heat, sound, optics. Individual assignments. This course may be repeated for further credit. 3 hours of laboratory. Laboratory fee, parttime students, \$5. FALL. SPRING.

Psychology

Professors: JOHN E. BENTLEY; CHARLES K. TRUEBLOOD (Chairman); ELLIS WEITZMAN. *Adjunct Professors:* JOHN L. ENDACOTT; LLOYD E. RACKLEY. *Professorial Lecturers:* KATHERINE P. BEARDSLEY; ALBERT C. CORNSWEET; GORDON L. LIPPITT; E. LAKIN PHILLIPS; ERNEST S. PRIMOFF; JOSEPH SAMLER. *Lecturers:* JOHN C. BALLOCH; SEYMOUR W. BEARDSLEY; HARRY BORNSTEIN; LEON EPSTEIN; CECILE B. FINLEY; EDMUND N. FULKER; HAROLD GOLDSTEIN; ALBERT E. HICKEY; GODFREY M. HOCHBAUM; REUBEN S. HORLICK; ARTHUR KIRACOFE; LEONARD M. MILLER; BERTRAM W. STRAUSS; CHARLES W. VAN WAY, JR.

Degree Programs

UNDERGRADUATE DEGREES—Bachelor of Arts. For information concerning Associate Degree programs consult the department chairman.

University Requirements 38-43 hours
Students majoring in psychology are advised to complete 57.200 General Psychology (3) as a part of their University requirements.

Departmental Requirements—

Major courses	27 hours
57.300-301 Experimental Psychology ¹ and ² (6), and 21 additional hours of courses at the 300-500-level in at least 3 of the following fields: general psychology, social psychology, psychology of personality, personnel psychology, psychological measurements, educational psychology, and counseling.	
Related courses	12 hours
Advanced work in the social sciences, with not more than 9 hours in one.	
Tool course	3 hours
69.200 Fundamentals of Statistics (3). Students planning to continue the study of psychology at the graduate level should include at least one modern foreign language in their undergraduate programs.	

Electivesto complete 126 hours

GRADUATE DEGREES—Master of Arts in psychology and in guidance and counseling, Doctor of Philosophy in psychology.

MASTER OF ARTS DEGREE

Course Requirements: Minimum of 30 hours of approved graduate work, including 6 in 57.799 Thesis Seminar-Psychology (3-6).

Written Comprehensive Examinations: For the degree in psychology—3, including one in general psychology; one in a specialized field of psychology, such as social psychology, personality, measurement techniques, personnel psychology, developmental psychology, or counseling psychology; and one in another specialized field of psychology or in a related field. For the degree in counseling and guidance—3, including one in counseling psychology, one in psychological and educational measurements, and one in another specialized field of psychology or in a field of education.

Other Requirements: Thesis.

DOCTOR OF PHILOSOPHY DEGREE

Course Requirements: Minimum of 72 hours of approved graduate work, at least 30 of which must be completed at The American University.

Written Comprehensive Examinations: 5, including one in general psychology; one in social psychology; and three in specialized fields of psychology such as personality, measurement techniques, personnel psychology, developmental psychology, counseling psychology, or a related field.

Other Requirements: Proficiency examination in 2 research tools (languages or statistics), thesis and oral examination of thesis.

Undergraduate Courses

- 57.200 GENERAL PSYCHOLOGY (3)** Psychological nature of the individual and the influences which affect human development and human action. Prerequisite to other offerings in the department. SUMMER. FALL. SPRING.
- 57.210 IMPROVEMENT OF READING (3)** Practical approach to the improvement of reading efficiency through supervised individual and group practice during class periods. Diagnosis of individual reading habits. Laboratory fee, all students, \$8. FALL. SPRING.
- 57.300 EXPERIMENTAL PSYCHOLOGY¹: RECEPTIVE PROCESSES (3)** Experimental study of psychological bases of behavior and the receptive processes: vision, audition, other senses. Required of students majoring in psychology. *Recommended prerequisite*, 69.200 *Fundamentals of Statistics*. FALL.
- 57.301 EXPERIMENTAL PSYCHOLOGY²: BEHAVIOR PROCESSES (3)** Experimental study of learning, perception, memory, emotion, thinking. Required of students majoring in psychology. *Prerequisite*, 57.300. SPRING.
- 57.302 APPLIED PSYCHOLOGY (3)** Application of psychology in the fields of human relations, mental health, increasing human efficiency, the selecting and training of personnel. FALL. SPRING.
- 57.305 GROUP DYNAMICS & ADMINISTRATIVE PRINCIPLES (3)** Systematic laboratory study of major characteristics and functions of face-to-face groups: cohesiveness, goal-setting, decision-making, styles of leadership, membership-roles. SPRING.
- 57.307 MENTAL HYGIENE (3)** Relationships between self-acceptance, self-respect, emotional health. Adjustment processes in everyday living, with emphasis on bringing unconscious motivation into awareness. FALL. SPRING.
- 57.310 PREPARATION FOR MARRIAGE (3)** Identification of factors of harmonious and stable marriage. Relation between childhood training and adult adjustment in marriage. Education for marriage. *Prerequisite*, *permission of the instructor*. FALL.
- 57.400 PSYCHOLOGY OF THE CHILD (3)** Growth through infancy and childhood, with emphasis on emotional behavior, intelligence, learning, social development. SPRING.
- 57.401 PSYCHOLOGY OF THE ADOLESCENT (3)** Physical, mental, social growth of the adolescent, with special consideration of the psychological bases of adolescent behavior. SUMMER.
- 57.402 INTRODUCTION TO COUNSELING PSYCHOLOGY (3)** Basic principles and methods used in educational, vocational, personal counseling. 1957 SPRING AND ALTERNATE YEARS.
- 57.404 INTRODUCTION TO SOCIAL PSYCHOLOGY (3)** Influence of group structure and dynamics upon the psychological development of the individual. Social environment in relation to individual adjustment. FALL. SPRING.
- 57.405 PSYCHOLOGY OF THE EXCEPTIONAL CHILD (3)** Characteristics of deviant children: the feeble-minded and the gifted; the hard of hearing and the deaf; the blinded and the blind; the emotionally disturbed. 1956 SPRING AND ALTERNATE YEARS.
- 57.410 PSYCHOLOGY FOR LAW ENFORCEMENT OFFICERS (3)** Applications of basic psychological principles to problems of modern law enforcement. SPRING.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

- 57.500 ADVANCED GENERAL PSYCHOLOGY (3)** Critical overview of major problems, methods, research findings in psychology. Basic course for all students interested in further work in psychology. *Prerequisite*, *one year of work in psychology or permission of the instructor*. 1956 FALL AND ALTERNATE YEARS.
- 57.501 ADVANCED EXPERIMENTAL PSYCHOLOGY (3)** Basic types of social-psychological research. Critical analysis of representative experiments with emphasis on formulation of research designs, choice of methodology, interpretation of results. 1957 SPRING AND ALTERNATE YEARS.
- 57.502 PHYSIOLOGICAL PSYCHOLOGY (3)** Neuro-physiological, endocrinological, and motor bases of action and learning. Lectures supplemented by demonstrations of brain and microscopic preparations. 1956 SPRING AND ALTERNATE YEARS.

- 57.503 THEORETICAL SYSTEMS OF PSYCHOLOGY (3)** Conceptual systems of psychology, involving consciousness, function, behavior, purpose, dynamism, gestalt, as they appear in the history of psychological thought. *Prerequisite, one year of work in psychology or permission of the instructor.* 1957 FALL AND ALTERNATE YEARS.
- 57.504 PSYCHOLOGICAL & EDUCATIONAL MEASUREMENTS¹: GROUP (3)** Administration, interpretation of group tests of intelligence, aptitude, achievement, interest, personality. *Prerequisite, one year of work in psychology or education. Introductory statistics recommended.* FALL. SPRING.
- 57.505 PSYCHOLOGICAL & EDUCATIONAL MEASUREMENTS²: INDIVIDUAL INTELLIGENCE (3)** Extensive laboratory practice in the administration, scoring, interpretation of representative tests of intelligence that require individual administration. FALL. SPRING.
- 57.506 ABNORMAL PSYCHOLOGY (3)** Deviations from normal behavior. Neurotic, psychotic, psychopathic personality. Disorders of sensation, perception, memory, motor control. Functional mental disorders. Principles of psychotherapy. SPRING.
- 57.508 PSYCHOLOGY OF THE ADULT (3)** Critical survey of principles and research studies relating to the behavior of mature individuals. Psychological needs, group behavior, occupational fitness of adults. 1956 AND 1958 SUMMER.
- 57.510 PROJECTIVE TECHNIQUES IN PSYCHOLOGY (3)** Examination of the theoretical bases of the projective techniques. Introduction to the principal projective methods used in the study of personality. SPRING.
- 57.515 DYNAMICS OF GROUP BEHAVIOR: FUNDAMENTALS (3)** Interpersonal relations in group situations. Causal factors in group functioning. Functional roles of individuals in groups. Sociometric factors in group structure. FALL.
- 57.520 BEHAVIOR PROBLEMS IN CHILDHOOD (3)** Psychological bases for normal and deviate behavior in children. Childhood problems from the standpoint of the psychologist. FALL.
- 57.521 BEHAVIOR PROBLEMS IN ADOLESCENCE (3)** Psychological bases for normal and deviate behavior in adolescence. Adolescent problems from the standpoint of the psychologist. SPRING.
- 57.523 PSYCHOLOGY OF PERSONALITY (3)** Development of wholesome personality. Individual traits, individual differences, modification of behavior patterns in personality; critical evaluation of research. Theories of personality. SPRING.
- 57.572 PRINCIPLES & PRACTICES OF GUIDANCE (3)** Principles and methods of counseling in elementary and secondary schools. Organization, utilization of information as related to the pupil. Basic course for teachers and school administrators; beginning course for counselors. FALL.
- 57.573 OCCUPATIONAL INFORMATION & THE EMPLOYMENT OUTLOOK (3)** Use of occupational information by teacher, school counselor, guidance worker, employment counselor, mature individuals who wish to utilize information for their own guidance. *Prerequisite, 57.572 or permission of the instructor.* 1956 SPRING AND ALTERNATE YEARS.
- 57.574 UNDERSTANDING THE INDIVIDUAL (3)** Development, organization, analysis of data related to the individual. Critical analysis of research related to interpretation of data about the individual. *Prerequisite, one course in psychological or educational measurement.* 1957 SPRING AND ALTERNATE YEARS.
- 57.575 PSYCHOLOGY OF THE HANDICAPPED (3)** Psychology of the mentally and physically handicapped. Emotional, social problems and adjustment. Use, interpretation of psychological tests in the appraisal of the handicapped. 1955 SUMMER AND ALTERNATE YEARS.
- 57.600 CLINICAL PSYCHOLOGY (3)** Survey of clinical methods. Description, psychopathology, therapy of behavior disorders. Lectures supplemented by presentations of appropriate types of patients. FALL.
- 57.604 ADVANCED SOCIAL PSYCHOLOGY (3)** Psychological factors in human social behavior. Social aspects of perception, motivation, thinking, language, attitudes. Public opinion, propaganda, prejudice, intergroup tensions. *Prerequisite, permission of the instructor.* FALL. SUMMER.
- 57.605 DYNAMICS OF GROUP BEHAVIOR: THEORY & RESEARCH (3)** Critical survey of the concepts, research findings, theory basic to the field of group dynamics. SPRING.
- 57.606 PROBLEMS IN TEST CONSTRUCTION (3)** Preparation, use, evaluation of educational, personnel, attitude measurements. *Prerequisites 57.504 and 69.200 Fundamentals of Statistics.* 1955 FALL AND ALTERNATE YEARS.
- 57.608 PSYCHOLOGICAL ASPECTS OF INTERNATIONAL RELATIONS (3)** Psychological principles in the development and modification of national ideologies, tensions, stereotypes. Psychological factors in war, peace, international negotiations. Problems of foreign service officers. SPRING.
- 57.610 APPLICATIONS OF PSYCHOLOGY TO INDUSTRY (3)** Applications of the experimental findings of scientific psychology to everyday problems and relationships of business and industry. SPRING.
- 57.670 TECHNIQUES OF COUNSELING SCHOOL PUPILS (3)** Methods of counseling pupils on problems of personality development, school progress, educational and occupational choice. *Prerequisite, 57.574 or permission of the instructor.* SUMMER.
- 57.691 PRACTICUM TRAINING (3)** Practice, under qualified supervision, in public or volunteer agencies, in technical procedures related to testing, therapy, similar activities of the professional psychologist. SPRING. FALL.
- 57.771 SEMINAR IN EMPLOYMENT COUNSELING (3)** Critical analysis of problems of employment counselors. Special reference to employment services of publicly supported employment agencies, schools, guidance centers. 1956 SPRING.
- 57.798 SEMINAR IN PSYCHOLOGY (3)** Directed research, reports, discussion on selected problems in various fields of psychology. SPRING.
- 57.799 THESIS SEMINAR IN PSYCHOLOGY (3-6)**

Sociology and Anthropology

Professors: ERNST CORRELL; FRANK LORIMER; AUSTIN VAN DER SLICE (Chairman). *Adjunct Professors:* HARRY ALPERT; EWAN CLAGUE; CORTLAND C. VAN VECHTEN; OSCAR WEIGERT. *Associate Professors:* ROBERT T. BOWER; HARVEY C. MOORE. *Assistant Professor:* JAMES H. FOX. *Professorial Lecturers:* HAROLD F. DORN; CAROLINE F. WARE. *Lecturers:* STANLEY BIGMAN; JOSEPH CASAGRANDE; LAWRENCE KRADER; BARKEV SANDERS; CLARK TIBBITTS; IVOR WAYNE.

Degree Programs

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Arts.

University Requirements 38-43 hours

Students majoring in sociology should complete 47.200 Logic & the Scientific Method (3), 57.200 General Psychology (3), 65.200 Introduction to Sociology (3), and 65.201 Introduction to Anthropology (3) as a part of their University requirements.

Departmental Requirements—

ASSOCIATE IN ARTS

Major courses 12 hours

BACHELOR OF ARTS

Major courses 24 hours

65.310 Social Research (3), 65.410 Sociological Theory (3), and 18 additional hours in courses at the .300–.500-level in the following areas with at least 9 hours in one of them and 3 hours each in the other four: social organization, anthropology, social research, population and ecology, and public welfare.

Related courses 18 hours

At least 12 hours must be in one field.

Tool course 3 hours

69.200 Fundamentals of Statistics (3).

Electives—

Associate in Arts.....to complete 63 hours

Bachelor of Arts.....to complete 126 hours

GRADUATE DEGREES—Master of Arts, Doctor of Philosophy.

MASTER OF ARTS

Course Requirements: Minimum of 30 hours of approved graduate work, 6 of which may be in 65.799 Thesis Seminar-Sociology (3-6).

Written Comprehensive Examinations: 3, including one in sociological theory; one in methods of social research; and one selected from the fields of anthropology, population studies, social psychology, certain other specialized areas in sociology, or a related social science.

DOCTOR OF PHILOSOPHY

Course Requirements: Minimum of 72 hours of approved graduate work, 30 of which must be taken in residence at The American University.

Written Comprehensive Examinations: 5, including one in sociological theory; one in methods of social research; and 3 selected from the fields of anthropology, population studies, social psychology, certain other specialized areas in sociology, or a related social science.

Other Requirements: Proficiency examinations in two tools of research (French, German, another modern language, statistics if appropriate to program); thesis and oral examination on thesis.

Undergraduate Courses

- 65.200 INTRODUCTION TO SOCIOLOGY (3)** Fundamental characteristics of social relationships. Culture, personality, population and ecology, social institutions and processes, cultural change. SUMMER. FALL. SPRING.
- 65.201 INTRODUCTION TO ANTHROPOLOGY (3)** Introduction to the comparative study of cultural content, form, process, social structure. Contributions of ethnology to the understanding of modern life. FALL. SPRING.
- 65.310 SOCIAL RESEARCH (3)** Introduction to social research: design of the experiment, sources of data, preparation of reports. *Prerequisite*, 65.200. 1956 SPRING AND ALTERNATE YEARS.
- 65.330 HUMAN ORIGINS (3)** Man's physical nature: origins, expression in race, interrelationships with socio-cultural factors. Principles of archeological research. Early culture and its contributions to contemporary practices. *Prerequisite*, 65.201. 1956 SPRING AND ALTERNATE YEARS.
- 65.335 THE NORTH AMERICAN INDIAN (3)** Survey of the Indians of America north of Mexico: origins, languages, modes of life, history. Results of European conquest. *Prerequisite*, 65.201. 1956 FALL AND ALTERNATE YEARS.
- 65.340 THE FAMILY (3)** Varying forms and functions of family organization in different societies. Evolution of American family patterns. Family relations and personality formation. Contemporary social changes influencing family life. *Prerequisite*, 65.200. SPRING.
- 65.350 POPULATION (3)** Theoretical and problem approach to study of population. Composition, distribution, trends, their social implications. Basic techniques of measurement. 1955 FALL AND ALTERNATE YEARS.
- 65.352 HUMAN ECOLOGY (3)** Relation of environment to distribution of population and to social structure and culture. 1956 FALL AND ALTERNATE YEARS.
- 65.360 CULTURAL CONFLICTS (3)** Group competition and conflict. Stereotypes and patterns of dominance and accommodation. Conditions creating tension and crises. Types of cultural conflicts, methods of resolving them. *Prerequisite*, 65.200. 1957 FALL AND ALTERNATE YEARS.
- 65.361 SOCIAL DISORGANIZATION (3)** Analysis of social problems created by technical, cultural change. Effect of migration on community structure. Social background of personal maladjustment. Processes of social reorganization. *Prerequisite*, 65.200. SPRING.
- 65.410 SOCIOLOGICAL THEORY (3)** Introduction to background and development of systematic theory in sociology. *Prerequisite*, 65.200. 1957 FALL AND ALTERNATE YEARS.
- 65.430 PRIMITIVE RELIGIONS (3)** Varieties of religious experiences and expressions, exclusive of the great world religions. Role of religion in influencing behavior and in integrating particular societies, cultures. *Prerequisite*, 65.201. 1957 FALL AND ALTERNATE YEARS.
- 65.431 PRIMITIVE POLITICAL SYSTEMS (3)** Study of control and authority in a variety of primitive peoples, with emphasis on the more complex primitive societies. *Prerequisite*, 65.201. 1957 SPRING AND ALTERNATE YEARS.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

SOCIOLOGICAL THEORY

- 65.510 CONCEPTS OF SOCIOLOGY (3)** Systematic survey, critical analysis of sociological concepts. Emphasis on theoretical systems. *Prerequisite*, 65.200. SPRING.
- 65.610 HISTORY OF SOCIOLOGICAL THEORY¹ (3)** Comparative study of major schools of sociological theory in France, Great Britain, U. S. *Prerequisite*, permission of the instructor. FALL.

- 65.611 **HISTORY OF SOCIOLOGICAL THEORY² (3)** Comparative study of major schools of sociological theory in Germany, Austria, Italy. *Prerequisite, permission of the instructor.* SPRING.
- 65.711 **SOCIOLOGICAL THEORY: SEMINAR (3)** Intensive study of selected area or school of sociological thought. Emphasis on research in source materials. *Prerequisite, permission of instructor.* 1957 SPRING AND ALTERNATE YEARS.

SOCIAL RESEARCH METHODS

- 65.512 **SOCIAL RESEARCH METHODS¹ (3)** Research procedures in sociology with emphasis on survey design, collection of quantitative data. *Prerequisite, 69.200.* FALL.
- 65.513 **SOCIAL RESEARCH METHODS² (3)** Research procedures in sociology with emphasis on analysis of quantitative data. *Prerequisite, 65.512.* SPRING.
- 65.515 **ATTITUDE MEASUREMENT & RESEARCH (3)** Examination of various means of measuring attitudes and analyzing survey data. Actual empirical field work in opinion and attitude research studied. Emphasis on research methods. *Prerequisite, 65.512.* 1957 SPRING AND ALTERNATE YEARS.
- 65.516 **RESEARCH METHODS IN MEDICAL CARE (3)** Application of research methods to problems of medical care in terms of personnel, need of facilities, costs, economic losses incident to ill health. *Prerequisite, 65.562.* 1956 FALL AND ALTERNATE YEARS.
- 65.691 **IN-SERVICE TRAINING PROJECT (3-6)** Research project for limited number of qualified students working in government or private organizations in areas related to their degree program. Project under supervision of faculty and organization concerned. SUMMER. FALL. SPRING.
- 65.710 **SOCIOLOGICAL METHOD: SEMINAR (3)** Translation of theories into research operations. Students share in research projects conducted at Bureau of Social Science Research; supervised research experience for graduate students. *Prerequisite, permission of the instructor.* 1957 SUMMER AND ALTERNATE YEARS.
- 65.799 **THESIS SEMINAR IN SOCIOLOGY (3-6)**

ANTHROPOLOGY

- 65.530 **THEORY & METHODS OF CULTURAL ANTHROPOLOGY (3)** Anthropological theories of culture and society; their history, present status, influences. Methods pertinent to the theories. *Prerequisite, 65.201.* 1956 FALL AND ALTERNATE YEARS.
- 65.531 **COMPARATIVE SOCIAL ORGANIZATION (3)** Anthropological approach to the comparative study of selected societies and varieties of social structure. *Prerequisite, 65.201.* 1957 FALL AND ALTERNATE YEARS.
- 65.532 **PROCESSES OF CULTURE (3)** Dynamics of culture. Growth, development, stability in culture content, form, organization. Acculturation and nativistic movements. Assimilation and integration of ethnic groups. *Prerequisite, 65.201.* 1956 FALL AND ALTERNATE YEARS.
- 65.533 **CROSS-CULTURAL ANALYSIS (3)** Contributions of cross-cultural analysis to an understanding of recurrent human problems such as bereavement, health, status changes. *Prerequisite, 65.201.* 1956 FALL AND ALTERNATE YEARS.
- 65.535 **CULTURAL INFLUENCES UPON THE INDIVIDUAL (3)** Examination of anthropological studies concerning personality. Influences of culture upon the thoughts and actions of the individual and the resulting cultural patterns and configurations. SPRING.
- 65.537 **LANGUAGE & CULTURE (3)** Cross-cultural consideration of language structure and behavior in relation to the rest of culture and to problems of culture pattern and change. *Prerequisite, 65.201.* 1957 FALL AND ALTERNATE YEARS.
- 65.538 **APPLIED ANTHROPOLOGY (3)** Applications of concepts, approaches in anthropology to selected problems in government administration, industry, medicine and public health, technical assistance programs. *Prerequisite, 65.201.* 1956 SUMMER AND ALTERNATE YEARS.
- 65.539 **CULTURE AREA ANALYSIS (3)** A selected culture area will be analyzed in terms of process, function, structure and development. *Prerequisite, 65.201.* FALL. SPRING.

SOCIAL ORGANIZATION

- 65.514 **SOCIAL ASPECTS OF MASS COMMUNICATION (3)** Communication of ideas in modern society. Special attention to current empirical research on mass media in relation to sociological theory. 1957 SPRING AND ALTERNATE YEARS.
- 65.540 **SOCIAL ORGANIZATION (3)** Basic social structure of modern society. Emphasis on American social organization. Integration of society; division of labor; consensus; stratification; institutional structure; role of social values. *Prerequisite, 65.200.* 1956 FALL AND ALTERNATE YEARS.
- 65.542 **SOCIOLOGY OF POLITICAL ACTION (3)** Critical evaluation of recent theories of political sociology. Motivation in political behavior. Application of concepts of group participation from functional sociology and psychology. *Prerequisite, 65.200 and 53.200, American Government: National.* 1956 SPRING AND ALTERNATE YEARS.

- 65.545 **AMERICAN COMMUNITIES (3)** Analysis of economic foundation, social and political structure, impact on individual personality of different types of American communities. Problems, processes of community organization. *Prerequisite*, 65.200. 1955 FALL AND ALTERNATE YEARS.
- 65.546 **COLLECTIVE BEHAVIOR (3)** Analysis of crowd, mass, public behavior. Relationship to social movements of modern times. Role of leadership in various types of collective behavior. Factors, processes in emergence of social order. *Prerequisite*, 65.200. FALL.
- 65.547 **SOCIAL STRATIFICATION (3)** Class status and power relationships in society. Critical analysis of theories and empirical research findings of current importance. *Prerequisite*, 65.200. 1956 SPRING AND ALTERNATE YEARS.
- 65.548 **ETHNIC GROUP RELATIONS (3)** Sociological analysis of ethnic group relations. Critical survey of empirical studies. *Prerequisite*, 65.200. 1957 SPRING AND ALTERNATE YEARS.
- 65.549 **SOCIOLOGY OF SCIENCE (3)** Science as major institution in modern society: historical development, social organization, inter-relationships; social, cultural determinants of scientific activities; contributions from sociology of knowledge, invention, technology. *Prerequisite*, 65.200. 1956 SPRING AND ALTERNATE YEARS.
- 65.550 **THE CITY (3)** Patterns and processes of urban society. The ecological and social organization of the modern city. Urban problems and trends. Emphasis on methods of research in the field. *Prerequisite*, 65.200. 1957 SPRING AND ALTERNATE YEARS.
- 65.580 **MOVEMENTS & INSTITUTIONS OF EUROPEAN CHRISTIANITY (3)** Social forces in establishment of western Christendom. Medieval Catholic society. Emergence of Protestant movements, forms of piety, ethics, church polity, social orientation. Reaction to changing economic environments. 1956 SPRING AND ALTERNATE YEARS.
- 65.581 **MOVEMENTS & INSTITUTIONS OF AMERICAN CHRISTIANITY (3)** Triumph of the free church movement, multiformity of socio-religious manifestations, social role of revivalism, degrees of social activism, ecumenical objectives versus plurality of American Protestantism. 1957 SPRING AND ALTERNATE YEARS.

POPULATION AND ECOLOGY

- 65.551 **ANALYSIS OF POPULATION TRENDS (3)** Growth, distribution of world population. Measurement and interpretation of mortality and fertility; intrinsic reproduction. Population estimates; age structure; labor force. International, internal migration. *Prerequisite, permission of the instructor*. FALL.
- 65.552 **POPULATION PROBLEMS & POLICIES (3)** Economic effects of population changes; optimum population. Demographic aspects of international problems. Development of national population policies. Implications of population analysis: education, social security, housing. *Prerequisite, permission of the instructor*. SPRING.
- 65.554 **MORBIDITY & MORTALITY ANALYSIS (3)** Sources of morbidity data, measurement of morbidity, morbidity tables, actuarial techniques in follow-up studies; life tables functions; biological aspects of life tables. *Prerequisite*, 69.200. 1957 SPRING AND ALTERNATE YEARS.

PUBLIC WELFARE

- 65.561 **PUBLIC WELFARE: PRINCIPLES & PROBLEMS (3)** Principles underlying public welfare programs and major problems in the field. Organizational structure, methods of operation of federal, state, local agencies administering programs. *Prerequisite, permission of department chairman*. 1956 SUMMER AND ALTERNATE YEARS.
- 65.562 **SOCIAL & ECONOMIC ASPECTS OF HEALTH (3)** Health problems in terms of expenditures, personnel, facilities, organization of adequate health service; public health practices; analysis of legislative proposals in the health field. *Prerequisite, permission of department chairman*. 1955 FALL AND ALTERNATE YEARS.
- 65.563 **CAUSES OF CRIME (3)** Nature, causal factors in delinquent behavior. Natural history of delinquent careers. Programs and policies for controlling problems of delinquency and crime in urban areas. *Prerequisite*, 65.200. 1955 FALL AND ALTERNATE YEARS.
- 65.564 **TREATMENT OF THE OFFENDER (3)** Practices, policies, programs for treatment of convicted offender; *alternatives to imprisonment*: probation, suspended sentence; *imprisonment*: jail, reformatory, penitentiary; *post-imprisonment*: parole, police surveillance, rehabilitative programs. *Prerequisite*, 65.563. 1956 SPRING AND ALTERNATE YEARS.
- 65.566 **PROBLEMS OF AGING (3)** Social, economic, health problems related to the aging process. Changing social roles, attitudes. Provision for the economic, health, psychological, social needs of the older person. 1957 FALL AND ALTERNATE YEARS.
- 65.567 **URBAN REDEVELOPMENT (3)** Theory and practice of urban redevelopment. Causal factors of city blight and slums; efforts of public, private agencies. Planning, financial, social, legislative aspects of urban redevelopment. *Prerequisite*, 65.200. 1957 SPRING AND ALTERNATE YEARS.

Statistics

Professor: JOHN H. SMITH (Chairman); PAUL N. SOMERVILLE (Visiting, 1955-1957).
Adjunct Professors: ERNEST E. BLANCHE; JEROME CORNFELD; ERNEST RUBIN; WALT R. SIMMONS. *Assistant Professor:* JAMES H. FOX. *Professorial Lecturers:* CLAIRE T. MACHLIN; HENRY G. PUPPA; SEYMOUR L. WOLFBEIN. *Lecturers:* SIDNEY BINDER; CARL L. BYHAM; CHURCHILL EISENHART; WILMOTH D. EVANS; ARDIE LUBIN; MARY E. SPEAR; WILLIAM J. YODEN.

Degree Programs

UNDERGRADUATE DEGREES—Bachelor of Arts. For information concerning Associate Degree programs consult the department chairman.

University Requirements38-43 hours

Departmental Requirements—

Major courses 36 hours

69.200 Fundamentals of Statistics (3), 69.300 Business Statistics or 69.301 Intermediate Statistics (3), 69.500 Mathematical Statistics (3), 69.502 Correlation Analysis (3), 69.504 Analysis of Variance (3), 69.510 Theory of Sampling (3), and 18 additional hours in applied statistics, statistical theory, and mathematics.

Related courses 21 hours

Option A: 6 hours in introductory courses in the social sciences, 3 hours in humanities, 12 hours in advanced courses in the social sciences. *Option B:* 21 hours in advanced mathematics and in related natural or social sciences.

Tool courses 12 hours

41.110 College Algebra (3), 41.140 Plane Analytic Geometry (3), 41.220 and 41.221 Differential and Integral Calculus¹ and² (6).

Electivesto complete 126 hours

GRADUATE DEGREES—Master of Arts, Doctor of Philosophy.

MASTER OF ARTS

Course Requirements: Minimum of 30 hours of approved graduate work, 6 of which may be in 69.799 Thesis Seminar-Statistics (3-6).

Written Comprehensive Examinations: 3, including one in statistical theory; and two chosen from the fields of applied statistics, a related social science, or mathematics.

Other Requirements: Thesis.

DOCTOR OF PHILOSOPHY

Course Requirements: Minimum of 72 hours of approved graduate work, 30 of which must be completed at The American University.

Written Comprehensive Examinations: 5, including two in fields of advanced statistical theory; and three selected from fields of applied statistics, related social science, and mathematics.

Other Requirements: Proficiency examinations in two tools of research (accounting, languages, mathematics); thesis and oral examination on thesis.

Undergraduate Courses

- 69.200 FUNDAMENTALS OF STATISTICS (3)** Collection of data; classification; tables; graphs; averages; dispersion; random sampling; standard-error analysis; linear regression and correlation between two variables. Economic and business applications; psychological section each year. *Prerequisite, secondary school algebra.* SUMMER. FALL. SPRING.
- 69.300 BUSINESS STATISTICS (3)** Price indexes, analysis of time series, indexes of physical volume, elements of multiple correlation and statistical inference. *Prerequisite, 69.200.* Not open to students who have completed 69.301. SUMMER. FALL. SPRING.
- 69.301 INTERMEDIATE STATISTICS (3)** Application of statistics in social sciences emphasizing sampling design correlation, contingency tables, tests of significance. *Prerequisite, 69.200.* Not open to students who have completed 69.300. SPRING.
- 69.302 MANAGERIAL STATISTICS** Fundamentals of statistical methods; techniques useful for management. Survey of first year principles; required of M.B.A. candidates entering without 6 hours of basic statistics. SPRING.
- 69.360 GRAPHIC PRESENTATION OF STATISTICAL DATA (3)** Functions of statistical charts for various purposes. Use of color, commercial materials, and lettering sets. Charts for lectures, exhibits, displays, and publications. FALL. 1955 SPRING.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

- 69.500 MATHEMATICAL STATISTICS (3)** Frequency and sampling distributions; simple sampling; binominal, Poisson, and normal probability functions; cumulants; bivariate distributions; tests of significance. *Prerequisite, a year of calculus and some work in elementary statistics.* SPRING.
- 69.502 CORRELATION ANALYSIS (3)** Simple, partial, multiple correlation; confidence intervals for simple and partial regression coefficients; estimates with minimum variance; tests of significance; graphic methods. *Prerequisite, some work in calculus and elementary statistics.* FALL.
- 69.504 ANALYSIS OF VARIANCE (3)** Statistical analysis of randomized block. Latin square, factorial experiments; degrees of freedom, tests of significance; incomplete blocks; unequal frequencies; confounding; analysis of covariance. *Prerequisite, a year of calculus and a year of statistics.* SPRING.
- 69.507 ENGINEERING STATISTICS ¹ (2)** General statistical methods for students with engineering or mathematics backgrounds. Averages, dispersion, correlation, sampling, analysis of variance. FALL.
- 69.508 ENGINEERING STATISTICS ² (2)** Continuation of 69.507, which is prerequisite to this course. SPRING.
- 69.510 THEORY OF SAMPLING ¹ (3)** Maximizing efficiency of sample surveys; stratification; types of sampling units; sub-sampling; double sampling; biased methods of selection and forms of estimate; precision and bias of results. *Prerequisite, some work in calculus and elementary statistics.* FALL.
- 69.511 THEORY OF SAMPLING ²: ADVANCED (3)** Advanced problems of sampling design. Cluster sampling, sub-sampling, types of costs; maximizing information per dollar; probability proportional to size, systematic sampling, restricted sample designs. *Prerequisite, 69.510.* SPRING.
- 69.520 DESIGN OF SCHEDULES & SAMPLING PRACTICE (3)** Planning effective questionnaires for use by government, educational, and private agencies. Application to a sample survey planned and conducted by the class. 1957 SUMMER AND ALTERNATE YEARS.
- 69.530 MACHINE METHODS IN LARGE SCALE SURVEYS (3)** Efficient planning of large scale surveys, editing, checking, coding, tabulating, analysis by means of punched cards and mechanical tabulating equipment. *Prerequisite, a course in statistics or adequate experience.* FALL.
- 69.540 LABOR STATISTICS ¹: LABOR FORCE (3)** Critical analysis of information on occupational descriptions and classifications, industrial classifications, industrial censuses, employment, pay-rolls, absenteeism, unemployment. FALL.
- 69.541 LABOR STATISTICS ²: WAGES & PRODUCTIVITY (3)** Wage rates, union scales, vacations, retirements. Prices and real wages. Sources, methods of collection, analysis, presentation. Application to labor problems. SPRING.
- 69.544 BIOMETRICS ¹ (3)** Bioassay, diagnostic tests, etc. Problem formulation, experimental design, methods of analysis. *Prerequisite, 69.504.* 1957 FALL AND ALTERNATE YEARS.
- 69.545 BIOMETRICS - (3)** Continuation of 69.544, which is prerequisite to this course. 1958 SPRING AND ALTERNATE YEARS.
- 69.550 FACTOR ANALYSIS (3)** Describing measurements on a large number of variables in terms of a small number of factors; psychological applications. *Prerequisite, work in psychological tests, mathematics, and statistics at least through multiple correlation.* SPRING.
- 69.570 QUALITY CONTROL IN MANAGEMENT (3)** Application of elementary statistical methods to control of quality of product or work output. *Prerequisite, 69.200.* 1956 FALL AND ALTERNATE YEARS.

- 69.571 **SEQUENTIAL ANALYSIS (3)** Selection of observations singly or in groups until a hypothesis may be accepted or rejected with a specified risk. Emphasis on inspection problems. *Prerequisite, a course in statistics with a calculus prerequisite.* 1957 SPRING AND ALTERNATE YEARS.
- 69.572 **DESIGN & INTERPRETATION OF EXPERIMENTS (3)** Characteristics of a good experiment; experimental designs and methods of analysis; maximizing precision of experiments. *Prerequisite, 69.200 and advanced work in one of the sciences.* 1956 SUMMER AND ALTERNATE YEARS.
- 69.573 **STATISTICAL THEORY OF MEASUREMENTS (3)** Measurements, scales, direct versus indirect measurement. Limiting mean, true values, errors, mathematical and statistical convergence. Statistical techniques for detection and diagnosis of errors. Precision versus accuracy. *Prerequisite, advanced work in statistical theory and in one of the sciences.* 1956 FALL AND ALTERNATE YEARS.
- 69.575 **ACCEPTANCE SAMPLING (2)** Review of catalogues of existing sampling plans. Principles of lot by lot sampling inspection by attributes and variables. Recent developments in attributes and variables sampling inspection. 1958 SPRING AND ALTERNATE YEARS.
- 69.600 **ESTIMATION & TESTING HYPOTHESES (3)** Least squares, maximum likelihood, confidence intervals. Properties of statistics and criteria of estimation; alternative hypotheses and errors of first and second kinds; desirable properties of test criteria. *Prerequisite, 69.502 and 69.504.* FALL.
- 69.602 **CHARACTERISTIC FUNCTIONS (3)** Use of characteristic functions to solve distribution problems in statistics. *Prerequisite, advanced calculus and at least 6 hours in statistics with calculus prerequisite.* SPRING.
- 69.604 **STATISTICAL DECISION FUNCTIONS (3)** General problem of choosing a course of action without complete information; common problems of inference as special cases; Bayes solutions; randomized decisions; convex sets; minimax principle. *Prerequisite, at least 6 hours in statistics with a calculus prerequisite.* 1957 SPRING AND ALTERNATE YEARS.
- 69.671 **MATHEMATICAL PRINCIPLES OF EXPERIMENT DESIGN (3)** Least squares estimation of effects for various experimental designs; tests of significance; construction of designs by means of finite geometries and difference sets. *Prerequisite, at least 6 hours in statistics with a calculus prerequisite.* 1957 SPRING AND ALTERNATE YEARS.
- 69.680 **ECONOMETRICS: STATISTICAL ANALYSIS OF TIME SERIES (3)** Estimation of parameters in dynamic models; alternative methods of studying related economic times series with relative advantages of each. *Prerequisite, 69.502 and advanced work in economics.* 1957 FALL AND ALTERNATE YEARS.
- 69.790 **SEMINAR IN STATISTICAL THEORY (3)**
- 69.799 **THESIS SEMINAR IN STATISTICS (3-6)**

School of Business Administration

NATHAN A. BAILY, B.S.S., M.A., Ph.D., Dean
HAROLD B. WESS, B.S., Director of Program

The School of Business Administration offers programs leading to the degrees of Associate in Business Administration, Bachelor of Science in Business Administration, and Master of Business Administration through day and evening study. The graduate degrees are awarded by the Graduate School under the regulations of the University and the Graduate Council.

The School of Business Administration was established by the University in the Spring of 1955 after careful study of the needs of the Washington area extending over a period of several years. Actively engaged in the work of the School and the promotion of its interests is the Business Advisory Committee composed of leading businessmen interested in academic work in this area.

Applications are accepted for admission during any session (Summer, Fall, Spring). Inquiries concerning admission to the University should be addressed to the Office of the Assistant to the President, Massachusetts and Nebraska Avenues, N.W., Washington 16, D.C.

School of Business Administration

Professors: NATHAN A. BAILY (Dean of the School of Business Administration); NIKOS G. PHOTIAS; HAROLD B. WESS. *Adjunct Professors:* HUGH C. BICKFORD; HARRY W. KETCHUM; ELMER C. KOCH; EUGENE C. MOYER; MYLES E. ROBINSON. *Associate Professors:* PALMER T. HOGENSON; THEODORE H. LEVIN. *Assistant Professors:* ARTHUR R. CARNDUFF; DAVID S. FIELDS; ELOISE NELSON MAGAW; JOHN E. MCGRATH. *Instructor:* HARRY ROSENTHAL. *Professorial Lecturers:* HAL N. CARR; SHERMAN S. COHEN; ALFRED D'ALESSANDRO; J. HARVEY DALY; LAWRENCE DOBROW; BERNARD T. DODDER; JACK P. DONIS; ELIZABETH FAIRALL; LLOYD FLETCHER, JR.; EDWIN C. FORS; MAXWELL KAUFMAN; ROBERT W. KING; MELVIN E. LEWIS; AUBREY R. MARRS; ARTHUR A. MAY; FERD NAUHEIM; THOMAS L. PHILLIPS; A. M. PROTHRO; JOHN R. RIGGLEMAN; JAMES ROTTO; MILTON A. SMITH; CAREY WINSTON. *Lecturers:* JESSE E. AIKEN; A. MACGREGOR AYER; RALPH BAILEY; LEE M. BARCY; OSCAR BESSIO; DAVID BROOKS; HERBERT BROWN; J. FRANK CLEMENTS; LEO DAVID; EDWARD S. DAVIS; ELIZABETH TAYLOR EVANS; ARTHUR M. FISHER; WILLIAM A. FURMAN, JR.; ROBERT E. GOLDSTEN; M. GEORGE GOODRICK; RUTH G. GRAZE; NELSON P. GRELLER; JOHN HILL; ELBERT T. HOVATTER; ANNE G. KANTOR; ARNOLD M. KRONSTADT; SUE G. LERNER; GEORGE J. LINK; CURT C. MACK; FREDERICK A. MARSTELLER; WILLIAM MASTBROOK; JOSEPH F. MCCLOSKEY; SPENCER B. MEREDITH; ELBERT Y. OLNEY; WILLIAM C. PENNINGTON; JOHN PERRY; JEROME P. PICKARD; THOMAS M. RAYSOR; AARON ROSLOFF; DAVID SACHS; JACOB SEIDENBERG; ROBERT W. STRAUS; GEORGE E. STRONG; M. BELMONT VER STANDIG; ANNETTE WARD.

Degree Programs

UNDERGRADUATE DEGREES—Associate in Business Administration, Bachelor of Science in Business Administration.

University Requirements 39-43 hours

Students majoring in business should complete 41.160 Fundamentals of Business Mathematics (3), 19.201 Introduction to Economics¹ (3), 53.200 American Government: National (3), and 57.200 General Psychology (3) as part of their University requirements.

School of Business Administration Requirements—

ASSOCIATE IN BUSINESS ADMINISTRATION (majors in business administration or secretarial studies).

Major courses 12 hours

Related courses 3-6 hours
19.202 Introduction to Economics² (3) and/or 10.201 Business Law¹ (3).

Tool courses 6 hours
10.211-212 Introductory Accounting¹⁻² (6).

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (majors in general business, accounting, finance, marketing, production, real estate, statistics).

*Major courses 24-30 hours

¹ The Giant Food Department Stores of Washington offer scholarships providing educational expenses and an opportunity for the recipients to work as junior executives. For information and brochure giving complete information, apply to the Office of the Assistant to the President.

- *Other required courses 42 hours
 10.201 Business Law ¹ (3), 10.302 Business Law ² (3), 10.211-212 Introductory Accounting ¹ and ² (6), 10.402 Business Research & Reports (3), 10.466 Business Finance (3), 10.531 Taxation ¹ (3), 10.556 Business Budgeting & Executive Control (3), 11.401 Marketing Organization (3), 19.203 Introduction to Economics ² (3), 23.270 Public Speaking (3), 29.553 History of American Business Leadership (3), 69.200 Fundamentals of Statistics (3), 69.300 Business Statistics (3).

Electives—

- Associate in Business Administration.....to complete 63 hours
 Bachelor of Science in Business Administration.....to complete 126 hours

GRADUATE DEGREE—Master of Business Administration. (The Graduate Council has approved a proposal for the award of the degree of Doctor of Philosophy in business administration. It is the hope of the School that with appropriate faculty action it may be possible to offer this degree beginning in the 1956-1957 Fall session.)

Prerequisites: 24 hours of prescribed undergraduate work in accounting, business administration, economics, and statistics. Students without this background must complete the necessary courses as part of the required work for the M.B.A. degree or pass proficiency examinations.

Course Requirements: Minimum of 30 hours of approved graduate work, including 10.556 Business Budgeting & Executive Control (3), 10.756-757 Seminar in Business Management ¹ and ² (6), and either 10.799 Thesis Seminar-Business Administration (3) or 10.758 Seminar in Human Relations in Business ¹ (3).

Written Comprehensive Examinations: 3, including one in business management; one in a specific area of business administration; and one in another specific area of business administration or in an approved related field.

Other Requirements: Thesis or completion of 6 hours selected from 10.756-757 Seminar in Business Management ¹ and ² (6), and 10.758 Seminar in Human Relations in Business ¹ (3) completed with a grade of at least B.

Undergraduate Courses

- 10.201 BUSINESS LAW ¹: CONTRACTS & AGENCY (3)** Legal concepts and functions. Federal, state court systems. Legal phraseology; elementary legal bibliography. Elements of law of contracts and agency. SUMMER. FALL. SPRING.
- 10.211 INTRODUCTORY ACCOUNTING ¹ (3)** Scope, purpose of accounting. Basic principles, procedures. Elementary techniques from original recording of business transactions through preparation of financial statements. 41.160 *Fundamentals of Business Mathematics desirable background*. Laboratory fee, parttime students, \$5. SUMMER. FALL. SPRING.
- 10.212 INTRODUCTORY ACCOUNTING ² (3)** Second half of first year principles. Introduction to accounting for corporations and principal balance sheet accounts, such as inventories, fixed assets. *Prerequisite*, 10.211. Laboratory fee, parttime students, \$5. SUMMER. FALL. SPRING.
- 10.302 BUSINESS LAW ²: NEGOTIABLE INSTRUMENTS & BUSINESS ORGANIZATIONS (3)** Functions, form, content of commercial paper. Uniform Negotiable Instruments Act. Elementary law of partnerships, corporations, and trusts. *Prerequisite*, 10.201. SUMMER. FALL. SPRING.

* Undergraduate students enrolled in a combined degree program leading to an undergraduate degree in the School of Business Administration and a law degree in the Washington College of Law complete modified requirements as follows: 18 hours of major courses, 27 hours of other required courses, and 9-12 hours of elective courses.

- 10.303 BUSINESS LAW²: BAILMENTS, SALES, PROPERTY (3)** Principles of bailments. Law of sales and sales contracts. Elements of law of personal and real property. Terminology involved in transfers of real property. *Prerequisite*, 10.201. SUMMER. FALL. SPRING.
- 10.311 INTERMEDIATE ACCOUNTING¹ (3)** Last course in basic sequence. Tie-together of principles. Introduction to cost concepts. Current trends. Accounting appraised through management's eyes; functions, usefulness, limitations. Required of candidates for M.B.A. degree. *Prerequisite*, 10.212 or (for graduate students) 10.400 *Use of Accounting Methods*. Laboratory fee, parttime students, \$5. SUMMER. FALL. SPRING.
- 10.312 INTERMEDIATE ACCOUNTING² (3)** Detailed analysis in turn of each balance sheet account. Technique and theory emphasized. Required of graduate students electing area of accounting for comprehensive exams. *Prerequisite*, 10.311. SPRING.
- 10.400 USE OF ACCOUNTING METHODS (3)** For nonspecialists in accounting. Accounting methods, procedures, philosophy as tools of management in business or government, financial analysis, business or economic research. Required of candidates for the M.B.A. degree who have not previously completed first year accounting. FALL. SPRING.
- 10.401 BUSINESS CORRESPONDENCE (3)** How to make business letters effective tools for public relations, sales promotion, and advertising. *Prerequisite*, courses in composition and business administration. FALL.
- 10.402 BUSINESS RESEARCH & REPORTS (3)** Research techniques. Sources of information, analysis and organization of data, writing business reports. Required of candidates for the B.S. in Business Administration degree. *Prerequisite*, 69.200 *Fundamentals of Statistics*. SUMMER. FALL. SPRING.
- 10.411 COST ACCOUNTING¹ (3)** Cost accounting for control in manufacturing. Job order and process cost systems; flexible budgets; joint, by-product costs; break-even point; differential cost, other cost concepts. *Prerequisite*, 10.311. FALL.
- 10.421 AUDITING¹ (3)** Procedures used to verify accounts and financial statements. Students prepare audit working papers of an extended audit problem up to the auditor's report. *Prerequisite*, 10.311. FALL.
- 10.446 INTRODUCTION TO BUSINESS ECONOMICS (3)** Major sectors of economics most useful to business executives. The economy; its indicators, measures, fluctuations. The firm: economic tools for decision making. *For advanced undergraduates and M.B.A. candidates entering without principles of economics*. FALL.
- 10.466 BUSINESS FINANCE (3)** Planning financial requirements for business firms. Securing funds. Lending, investment institutions. How lenders and investors evaluate businesses. Corporate securities. Money markets. *Prerequisite*, basic accounting and economics. SUMMER. FALL.
- 10.467 PERSONAL FINANCE (3)** Solving personal financial problems by effective money management. Increasing value of income: budgeting, efficient saving, low cost borrowing. Providing for retirement, old age, sickness. Introduction to investments, insurance, taxes. FALL.
- 10.481 PRINCIPLES OF INDUSTRIAL MANAGEMENT (3)** Organization and operation of industrial enterprise. Economics of production. Management of physical property. Organization of physical plant. The production process. Production and cost control. SUMMER. FALL.
- 11.401 MARKETING ORGANIZATION (3)** The marketing process: functions, institutions, channels involved in distribution of goods and services from producers to consumers. Buying motives. Role of middlemen. Marketing practices, costs. SUMMER. FALL.
- 11.402 SALESMANSHIP (3)** Art of salesmanship; creation of consumer desires, aiding customers in buying motives; selling techniques; characteristics of efficient salesmen. Selling in a dynamic economy. Career opportunities. SPRING.
- 11.411 PRINCIPLES OF ADVERTISING (3)** Advertising approach to marketing problems. Advantages, limitations of advertising. Elements of advertising campaigns; budget, product, consumer studies, media selection, copy, layout, production, scheduling, testing. *Prerequisite*, 11.401 or advertising experience. FALL.
- 11.436 PRINCIPLES OF RETAILING (3)** Procurement and distribution of merchandise by retailers. Types of retail organizations. Consumer economics from retailer's viewpoint. Retail buying. Pricing policies. Planning, control. Legal regulations. 1956 FALL.
- 11.476 FUNDAMENTALS OF REAL ESTATE (3)** Basic economics, history, ethics of real estate business. Role of real property in economic life. Terminology. Characteristics of markets. Values. Development, financing, marketing. FALL.
- 11.491 PERSONNEL MANAGEMENT IN INDUSTRY (3)** Manpower management in private enterprise. Human relations and human engineering. Recruitment, selection, testing, training, promotion, transfer, turnover; health, safety, morale, discipline, personnel services, records, research. SUMMER. FALL.
- 12.101 BEGINNING TYPING (2)** The development of skill in the use of the typewriter to produce type-script of accepted standards. SUMMER. FALL. SPRING.
- 12.103 BEGINNING SHORTHAND (2)** Complete theory of Gregg shorthand. Development of proficiency in taking dictation. SUMMER. FALL. SPRING.
- 12.201 ADVANCED TYPING (2)** Professional typist development through practical experience in executing skill building assignments given on office production basis. SUMMER. FALL. SPRING.

- 12.204 INTERMEDIATE SHORTHAND (2)** Review of system student has learned. Practice in taking dictation up to 80 words a minute and in transcribing. Open to writers of all systems. *Prerequisite, 12.103 or the equivalent.* SPRING.
- 12.303 ADVANCED DICTATION (2)** Development of skill in taking new dictation of all kinds at 60-140 words a minute. Open to writers of all shorthand systems. *Prerequisite, 12.103 or equivalent.* SUMMER. FALL.
- 12.305 SECRETARIAL PRACTICE (2)** Secretarial duties in all phases of communication, legal and financial matters, preparation of reports, use of filing systems, office management. *Prerequisite, 12.101 or equivalent.* SPRING.
- 12.403 EXPERT SHORTHAND (2)** Development of skill in taking general and specialized dictation at rates of 120 words a minute and up, and in transcribing it professionally. Open to writers of all systems. *Prerequisite, 12.303.* SPRING.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

BASIC, GENERAL COURSES

- 10.500 BUSINESS-GOVERNMENT RELATIONSHIPS (3)** How individual business men express views and demands to governmental agencies. How organizations determine membership views and adopt policies on business-government relationships. Advisory committees. Lobbying. FALL. SPRING.
- 10.501 LITERATURE OF BUSINESS ADMINISTRATION (3)** Reading and analysis of major contributions to philosophy, methodology, understanding of management, human relations, other basic areas. Emphasis on group analysis, seminar type discussion. *Prerequisite, permission of instructor.* SPRING.

ACCOUNTING

- 10.511 CONSOLIDATED FINANCIAL STATEMENTS (3)** Third year principles course. Preparation of consolidated financial statements. Branch accounting; consolidations and mergers; foreign exchange. *Prerequisite, 10.311.* FALL.
- 10.512 COST ACCOUNTING² (3)** Principles of industrial standard cost accounting and related systems which utilize predetermined rather than historical cost. Techniques of accumulating and recording data for cost control. *Prerequisite, 10.411.* SPRING.
- 10.522 AUDITING²: PROFESSIONAL PRACTICE (3)** Preparation of the auditor's report. Auditing procedures, practices and reports of the professional public accountant, including the professional and ethical standards of public practice. *Prerequisite, 10.421.* SPRING.
- 10.530 ANALYSIS OF FINANCIAL STATEMENTS (3)** Analysis, interpretation of financial statements from the respective viewpoints of management, creditors, investors. Determination and interpretation of trends, ratios. Emphasis on case studies. *Prerequisite, previous accounting courses.* SUMMER.
- 10.531 TAXATION¹ (3)** Economics of taxation. Survey of U. S. tax system with emphasis on federal income taxes pertaining to individuals, partnerships, trusts. Class preparation of returns and forms. *Knowledge of basic accounting desirable.* FALL. SPRING.
- 10.532 TAXATION² (3)** Specially designed for practicing lawyers, accountants. Federal income excess-profits taxes on corporations; estate, gift taxes; state and local property, excise taxes. Actual forms prepared. *Prerequisite, 6 hours of accounting and 10.531.* SPRING.
- 10.533 TAXATION³ (3)** Tax practice, procedure. How to find facts, develop law. Practice before all Internal Revenue offices; protesting agents' reports; claims for refund. Tax Court procedure. Federal Court procedure. *Prerequisite, 3.540 and 3.541 (the latter may be taken concurrently with this course).* SPRING.
- 10.534 SYSTEM DESIGN & INSTALLATION (3)** Techniques of analyzing and designing systems for effective managerial control. Adapting accounting procedures to organizations of various types and sizes. Demonstrations of important machine methods. *Prerequisite, 10.411, 10.421, 10.524.* FALL.
- 10.535 ADVANCED ACCOUNTING³ (3)** Third year principles. For advanced accounting, finance students, lawyers. Partnerships through liquidation. Estates, trusts. Accounting for "sick" businesses; realization and liquidation reports. *Prerequisite, 10.311.* SPRING.
- 10.536 GOVERNMENTAL ACCOUNTING³ (3)** Study of accounting systems used by governments, emphasizing expenditures with the fund method; sources, control of cash; budget, statement preparation. Primarily municipal level. *Prerequisite, 10.311.* SPRING.
- 10.538 CONTROLLERSHIP IN BUSINESS (3)** Controller's function in business. Emphasis on interpretation of accounting and long of managerial problems and reporting thereon. Role as staff member of the management team. *Prerequisite, advanced work in accounting and business administration.* 1958 SPRING AND ALTERNATE YEARS.
- 31.023 INSTITUTE OF FEDERAL TAXES (No credit)** See page 94.
- 31.506 INSTITUTE OF C.P.A. EXAMINATION REVIEW (6)** See page 94.

BUSINESS ECONOMICS

- 10.546 ECONOMIC ANALYSIS IN BUSINESS (3)** Managerial economics; tools and methods for application of economic analysis to solution of business problems. Pricing, volume, new products, capital expansion. *Prerequisite, basic courses in accounting, economics, and statistics.* 1956 FALL.
- 10.547 FOUNDATIONS OF BUSINESS FORECASTING (3)** Theoretical tools needed by executives to evaluate appraisals of economic outlook. Analysis of business cycles, fluctuations of income and employment. Economic indicators. Reliability of forecasts. *Prerequisite, 10.546.* 1957 SPRING.

BUSINESS MANAGEMENT

- 10.556 BUSINESS BUDGETING & EXECUTIVE CONTROL (3)** Budgeting as a managerial tool for analysis, planning, coordination, control. Development of budgeting. Required of M.B.A. candidates. *Prerequisite, 6 hours in accounting and 3-6 in statistics.* SUMMER. FALL. SPRING.
- 10.557 OPERATIONS RESEARCH IN BUSINESS MANAGEMENT (3)** Operations Research as a scientific aid to executive decisions. Origins, development, basic concepts, approach. Organization, function of operations research group. Areas of application. Limitations. FALL.
- 10.558 CREDIT UNION LEADERSHIP (3)** History, philosophy, institutional functions. Training in providing cooperative savings and loan services. How to organize, interest members in control and utilization of their monies. Developing working relationships with regulatory agencies, credit union federations. Building effective public relations. SPRING.
- 10.559 ADVANCED CREDIT UNION OPERATION (3)** Key techniques for furthering growth of credit unions and training staffs. Office practices and controls, personal counselling, publicity methods, psychology, legal aspects. FALL.
- 10.560 THE PRACTICE OF MANAGEMENT (3)** Analysis of principles, characteristics of successful administration. Entrepreneurial functions. Formation of policy. Long term planning. Responsibilities of management. 1957 SPRING.
- 31.005 INSTITUTE ON PROFITABLE MANAGEMENT FOR SMALL BUSINESS (No credit)** See page 94.
- 31.551 INSTITUTE ON RECORDS MANAGEMENT (2)** See page 95.

FINANCE

- 10.566 ADVANCED BUSINESS FINANCE (3)** Case problems on financing current operations, long-term needs of business firms. Capital structures; valuation, marketing of securities. Reserve, dividend policies. Promotion, expansion, combination. Recapitalization, reorganization. *Prerequisite, 10.456 and 10.211 or 10.400.* SPRING.
- 10.568 INVESTMENT BANKING (3)** Functions, techniques of investment banking. Underwriting, competitive bidding, private negotiation, securities exchange, the over-the-counter market, government regulations. FALL.
- 10.569 INVESTMENT ANALYSIS (3)** General considerations in security selection. Timing: Dow Theory, dollar averaging, formula planning. Market fluctuations: measurement, analysis. Information sources. Categories of securities. *Prerequisite, basic understanding of securities from experience or from 10.466 or 10.467.* SPRING.
- 10.570 ADVANCED INVESTMENT ANALYSIS (3)** Securities analysis. Investment approaches, theories. Portfolio construction, management. Emphasis on current investment trends, practical techniques for successful investment. *Prerequisite, 10.569.* FALL.

INDUSTRIAL MANAGEMENT

- 10.581 MOTION, TIME, METHODS STUDY (3)** Principles, analysis of work methods and establishment of standard methods of operation. Measurement of efficiency. Procedures for installation of programs. FALL.
- 10.582 INDUSTRIAL PLANT PLANNING (3)** How to get a manufacturing unit into operation. Location of factories. Layout planning principles and techniques. Industrial buildings. Relationships with production engineers, architects, contractors. 1957 SPRING.
- 10.585 MATERIALS HANDLING (3)** Principles, operating problems, training programs, cost elements, selection and use of equipment. Case studies from business, industry, the military. SPRING.
- 10.584 MANAGEMENT ENGINEERING (3)** Scope, history, functions of management engineering. Types of management engineers. Training and experience essential to successful careers in management engineering. *Prerequisite, advanced work in business administration.* 1956 FALL.
- 31.002 INSTITUTE OF MATERIALS HANDLING (No credit)** See page 94.

INDUSTRIAL RELATIONS AND PERSONNEL MANAGEMENT

- 11.591 WAGE ADMINISTRATION & JOB EVALUATION (3)** Job descriptions, job evaluation, job classification, wage, salary determination and administration. Job descriptions, job evaluation, job classification, wage, salary structure; efficiency rating; incentive systems; legislation; occupational information. *Prerequisite, 11.481.* SPRING.
- 11.592 INDUSTRIAL RELATIONS (3)** Management techniques for dealing with organized labor, achieving labor-management cooperation. Unions; development of objectives, policies, tactics. Management resources. Contract negotiation, administration. Government regulation. *Prerequisite, 11.491.* SUMMER. SPRING.

- 11.593 ADVANCED INDUSTRIAL RELATIONS (3)** Methods by which management negotiates, administers collective bargaining agreements. Application of principles of contract negotiation through role playing, mock bargaining sessions. *Prerequisite*, 11.592 or equivalent experience. SUMMER.
- 11.594 SUPERVISION IN INDUSTRY (3)** How to supervise people effectively. Supervisory training; developing responsibility, assigning authority. Supervision and effective communication. Personnel, control, training, production functions; safety, morale. Union contract administration. *Prerequisite*, 11.491. FALL.
- 11.595 COMMUNICATION & EMPLOYEE PRODUCTIVITY (3)** How effective employee-management communication can increase employee productivity. Human factors in administration. Techniques of program evaluation and correction. Unions. Theory, case studies. *Prerequisite*, 11.491. SPRING.
- 31.001 INSTITUTE OF EMPLOYEE COMMUNICATION (No credit)** See page 94.

MARKETING

- 11.501 CONSUMER MARKETS (3)** For marketing, real estate, retailing, economics students. Channeling of consumer expenditures through retail stores. Store location. How retail enterprises can increase their share of consumer dollar. FALL.
- 11.502 MARKET RESEARCH (3)** Collection, interpretation, presentation of data as basis for marketing decisions. Techniques for analyzing size, character of markets. Sampling, questionnaires, surveys, use of company, external records. *Prerequisite*, 11.401 and 69.300. SPRING.
- 11.601 MARKETING MANAGEMENT (3)** Problem approach to marketing at policy level. Pricing. Selection of distribution channels, territories. Competition; government controls. Organization, direction of sales campaigns. Marketing tools of management. 1957 SPRING.

ADVERTISING

- 11.511 SALES PROMOTION (3)** Methods and devices to increase effectiveness of demand created by merchandising, mass advertising, personal selling. Emphasis on techniques aiding development of individual selling abilities. *Prerequisite*, 11.411. SPRING.
- 11.512 ADVERTISING COPY (3)** How to write advertisements which increase sales. Distinctive problems of various types of copy analyzed and methods of copy testing evaluated. *Prerequisite*, 11.411. SPRING.
- 11.513 ADVERTISING LAYOUT & PRODUCTION (3)** Arrangement of headlines, copy, illustrations to achieve balance, gaze motion, distinctiveness, legibility. Type, paper, production processes. Practice in visualizing, laying out, scheduling, producing. 1957 SPRING.
- 11.514 ADVERTISING MEDIA (3)** Analysis of media. Selection in terms of reaching desired markets. Operations of advertising departments, scheduling requirements, methods of evaluation, rate structures. 1957 FALL.
- 11.515 DIRECT MAIL SELLING (3)** Principles, practices of profitable direct advertising. When, how to use direct mail selling. How to program, prepare, buy direct mail pieces. Postal regulations. 1957 SPRING.
- 11.520 ADVERTISING AGENCY MANAGEMENT (3)** Effective agency management, finance, accounting. Long range planning. Advertiser-agency relationships. Personal work control methods. Merchandising of advertising programs. *Prerequisite*, permission of instructor. 1958 SPRING.

FOREIGN TRADE

- 11.526 FOREIGN TRADE (3)** American markets for foreign commodities; foreign markets for American products. Types of organizations. Market analysis. Securing dealers, agents. Financing sales; credits; collections. Information sources. *Prerequisite*, 19.400. FALL.
- 11.527 EXPORT-IMPORT PROCEDURES (3)** Buying and selling in foreign trade: practices, procedures. U. S., foreign government regulations. Foreign trade law. Documents, banking, insurance. Shipping, packaging, tariff problems. Advertising, sales promotion. *Prerequisite*, 11.526. SPRING.

RETAILING

- 11.536 RETAIL STORE MANAGEMENT & MERCHANDISING (3)** How to make money in retailing. Policy making. Merchandising. General administrative course; students analyze operations of actual store from viewpoint of obtaining maximum profit. FALL.
- 11.537 STORE ORGANIZATION & OPERATION (3)** Problems of store management faced by operating executives. Organizations; location; layout; expense; personnel; receiving; packing; wrapping, delivery; customer complaints; protection; maintenance; mail, telephone orders. SPRING.
- 11.538 FASHION IN RETAILING (3)** Fashion in selection, promotion, selling of merchandise. Effect on consumers, manufacturers, retailers. Fashion cycles. Current fashions; work of prominent designers. Career opportunities for men, women. FALL.
- 11.539 MERCHANDISING HOME FURNISHINGS (3)** How to merchandise home furnishings. Analysis of quality, style, design. Price lines. Interior decoration: planning home interiors. Color, form, function. Home furnishing markets. SPRING.
- 11.540 RETAIL BUYING (3)** The buyer: functions, responsibilities. Pre-buying preparation; selecting new lines; ordering. Resident buying. Buying, merchandising. Problems in buying various types of goods. 1956 FALL.

- 11.541 CONSUMER PRODUCTS (3)** Basic information about consumer products; production, use characteristics; comparative costs; consumer appeals. Basic materials analysis. For all concerned with successful sale of consumer products to public. 1957 SPRING.
- 11.542 MATHEMATICS OF MERCHANDISING (3)** Interpretation of operating figures applied to selling departments or individual businesses. Analysis of factors responsible for profits, losses. Emphasis on retail method of inventory. 1957 FALL.

SALES MANAGEMENT

- 11.551 SALES MANAGEMENT (3)** Organization of sales department. Qualifications, duties of sales manager. Recruitment, selection, training of salesmen. Planning, conducting sales campaigns. Sales trend studies, forecasts. Sales cost, control. 1956 FALL.
- 11.552 DISTRIBUTION COST ANALYSIS (3)** Marketing data as management tools to reduce distribution costs, increase selling efficiency. Analyzing distribution costs, profits by products, customers, territories. Effect on over-all position of firm. *Prerequisite*, 11.502. 1957 FALL.

REAL ESTATE AND INSURANCE

- 11.576 REAL ESTATE PRACTICE ¹ (3)** Practical operation of a brokerage business. Economic, functional, ethical, legal status, responsibilities of broker. Local regulations. Appraising residential, income properties. Financing; taxation; construction; finished loans. FALL.
- 11.577 REAL ESTATE PRACTICE ² (3)** Continuation of 11.576. Advertising. Listings. Creative selling, ground sales. Developments. Leases; residential, commercial. Sales contracts, settlements. SPRING.
- 11.578 REAL ESTATE LAW (3)** Legal aspects of real estate transactions. Requirements in acquisition, encumbrance, transfer. Rights, obligations of parties in transactions. Survey of laws, analysis of cases, statutory provisions. FALL. SPRING.
- 11.579 HOME BUILDING (3)** Constructing a home. Site selection, acquisition. Architect's duties, responsibilities. Design, building codes, permits. Construction materials. Setting, landscaping. Costs, financing. Selection of builder, building contracts, bonding. FALL.
- 11.580 MORTGAGE FINANCING (3)** History of mortgage lending. Evaluation of loan applications, property appraisal. Underwriting mortgage risk, selling, loans, correspondent-investor relationships. Construction loans. Government financing. Closing, servicing loans. New business. FALL.
- 11.581 REAL ESTATE MANAGEMENT (3)** How to manage property. Property management as specialized branch of real estate. Management of commercial, dwelling units. Neighborhood analysis, tenant selection, maintenance, repair. Public relations. SPRING.
- 11.582 LAND PLANNING & USE (3)** Land values, utilization. Location problems of consumers, businesses, industries, households. Changes in land use patterns produced by market forces, public policies. SPRING.
- 11.583 REAL ESTATE MARKET ANALYSIS (3)** How to measure demand and supply for real estate in a local market. Sources of information. Population analysis. Forecasting techniques. *Prerequisite*, 11.476 and 11.502. 1956 FALL.
- 11.584 REAL ESTATE APPRAISAL ¹ (3)** *Official demonstration case-study course of the American Institute of Real Estate Appraisers.* Fundamental theories, principles, mathematics of appraising. Qualifications of appraiser. Satisfactory grade accepted by Appraisal Institute in lieu of Required Examination No. 1. *Prerequisite*, 12 hours of real estate courses or equivalent experience. SPRING.
- 31.504 INSTITUTE ON REAL ESTATE APPRAISAL ² (3)** See page 94.

INSURANCE

- 11.586 LIFE INSURANCE ¹ (3)** Fundamental principles. Analysis of companies, contracts, costs to policyholders. Premium computation, valuation, apportionment of surplus. State regulations, laws, judicial decisions affecting life insurance. Course preparatory for Part A of the Chartered Life Underwriter's examination. 1956 FALL.
- 11.587 LIFE INSURANCE ² (3)** Fundamentals applied to estate planning, group insurance. Methods of computing mortality tables, premium, reserves. History of life insurance; its role in U. S. economic development. Course preparatory for Part A of the Chartered Life Underwriter's examination. 1958 SPRING.
- 11.588 PROPERTY INSURANCE (3)** Analysis of contracts, insurable interest. Endorsements: clauses, forms; insuring consequential loss. Reinsurance. Loans, adjustments, settlements; rates, reserves. Ocean, inland marine insurance. *Desirable background for C.P.C.U. examination.* FALL.
- 11.589 CASUALTY INSURANCE (3)** Insurance coverage for general liability, automobile, property damage, aviation, theft, dishonesty, fidelity, credit. Underwriting; rating procedures. Prospecting, sales approaches, closings. *Desirable background for C.P.C.U. examination.* SPRING.

SEMINARS

- 10.711 SEMINAR IN ACCOUNTING THEORY (3)** Analysis of current accounting problems. Review of current literature. For students preparing for comprehensive examinations in accounting. 1956 FALL.

- 10.756 SEMINAR IN BUSINESS MANAGEMENT¹ (3)** Development of executive skills of students through seminar approach and case problem method. Emphasis on problems of chief administrative officers and their effective solution. Required of M.B.A. candidates. FALL.
- 10.757 SEMINAR IN BUSINESS MANAGEMENT² (3)** Continuation of but may be taken before 10.756. Development of executive skills. Seminar approach and case problem method. Emphasis on problems of chief administrative officers and effective solutions. Required of M.B.A. candidates. SPRING.
- 10.758 SEMINAR IN HUMAN RELATIONS IN BUSINESS¹ (3)** Case problems and seminar approach to increase students' capacity to work effectively with superiors, equals, subordinates. Importance of human relations in successful business operation. Required of M.B.A. candidates electing non-thesis option. FALL. SPRING.
- 10.759 SEMINAR IN HUMAN RELATIONS IN BUSINESS² (3)** Continuation of 10.758: How to get policy decisions executed through people. 1957 SPRING.
- 10.760 SEMINAR FOR CASE CONFERENCE LEADERS (3)** How to conduct effective conferences and seminars by the case problem method. Case problems used cover wide range of business problems and situations. *Prerequisite, at least 6 hours of 10.756, 10.757, 10.759, or equivalent.* SPRING.
- 11.736 SEMINAR IN RETAILING MANAGEMENT (3)** Problems of managing retail enterprises analyzed through case studies. Students attempt to develop managerial programs or bases for managerial decisions. Oral and written reports. 1957 SPRING.
- 10.799 THESIS SEMINAR IN BUSINESS ADMINISTRATION (3)**

NOTE: At the time of the establishment of the School of Business Administration courses in accounting, business administration, and secretarial studies were grouped together and in many cases renumbered. The list below indicates the new and old numbers of these courses. The new number is given in the left column; the number it displaces (beginning in the fall of 1955) is listed in the right column.

<i>Present Number</i>	<i>Former Number</i>	<i>Present Number</i>	<i>Former Number</i>	<i>Present Number</i>	<i>Former Number</i>
10.201	11.301	10.530	3.510	11.511	11.530
10.211	3.200	10.531	3.540	11.512	11.532
10.212	3.201	10.532	3.541	11.515	11.536
10.302	11.302	10.533	3.542	11.526	12.517
10.303	11.303	10.534	3.564	11.527	12.518
10.311	3.300	10.535	3.560	11.536	12.521
10.312	3.501	10.536	3.562	11.541	12.525
10.400	11.400	10.538	3.680	11.551	12.514
10.401	11.401	10.556	11.512	11.579	11.583
10.402	11.300	10.566	11.505	11.586	11.560
10.411	3.420	10.569	11.507	11.591	11.570
10.421	3.430	10.581	11.520	11.592	11.571
10.466	11.406	11.401	12.410	12.101	63.100
10.467	11.405	11.411	11.430	12.103	63.102
10.481	11.420	11.436	12.420	12.201	63.200
10.500	11.514	11.476	11.480	12.303	63.202
10.512	3.520	11.491	11.470	12.305	63.205
10.522	3.530	11.502	12.511		

The Washington College of Law

DAVID R. BOOKSTAVER, B.A., LL.B., Dean

The Washington College of Law offers programs leading to the degree of Bachelor of Laws through day and evening study. The College of Law is a member of the Association of American Law Schools and is approved by the American Bar Association. In addition, the College meets the requirements for preparation for the Bar in all states and carries the special certification of the United States District Court for the District of Columbia as well as the New York State Department of Education.

There is no urban center in America providing a more advantageous environment for the study of law than Washington. The capital city, with its opportunities for studying the federal government in operation as well as to visit the District and Federal courts, provides unparalleled professional advantages to the student of law.

Applications are accepted for admission during any session (Summer, Fall, Spring). Inquiries concerning admission to the University should be addressed to the Office of the Assistant to the President, Massachusetts and Nebraska Avenues, N.W., Washington 16, D.C., or to the Dean of the College, 2000 G Street, N.W., Washington 6, D.C.

Washington College of Law

Professors: DAVID R. BOOKSTAVER (Dean of the Washington College of Law); HERBERT FUCHS; EDWIN A. MOOERS; JOHN SHERMAN MYERS. *Associate Professor:* ROY P. FRANCHINO. *Professorial Lecturers:* LAWRENCE S. LESSER; PHILIP LEVY; REBECCA LOVE NOTZ; GERALD D. O'BRIEN; MONROE OPPENHEIMER; KARL STECHER; BARNARD T. WELSH. *Lecturers:* RICHARD D. DRAIN; WILLIAM L. GRIFFIN; JULIA B. HOPKINS; LEON LIPSON; BESSIE MARGOLIN; ROSS D. NETHERTON; HERBERT L. PACKER; CARRINGTON SHIELDS; ADAM YARMOLINSKY.

Degree Programs

The American University offers programs leading to the degree of Bachelor of Laws in the Washington College of Law. Candidates for the degree must complete 80 hours of law courses (the last 20 hours in this University), maintain a cumulative average of 1.0, and complete their law studies within a period of not less than 2 nor more than 6 calendar years of study. For information concerning law studies and the combined undergraduate-law degree program open to students of the Undergraduate College and the School of Business Administration see page 37 or apply to the dean of the Washington College of Law, The American University, 2000 G Street, N.W.

First Year Courses

- 39.500 AGENCY (2) Distinction between agent, servant, and independent contractor; creation, incidents, and termination of the agency relation; apparent authority, ratification, undisclosed principal, irrevocable agencies. FALL.
- 39.501 CONTRACTS I (4) Formation of simple contracts; sealed contracts; offer and acceptance; misrepresentation and mistake; consideration; third-party beneficiaries; the Statute of Frauds; assignment; joint and joint and several contracts. FALL.
- 39.502 CONTRACTS II (2) Performance and breach; compromise agreements and discharge; illegality. SPRING.
- 39.503 CRIMINAL LAW (4) Criminal law in general; the mental element; capacity to commit crimes; the nature of selected common law and statutory felonies and misdemeanors; selected problems in criminal procedure. SPRING.
- 39.504 LEGAL METHOD & RESEARCH (2) Introduction to the study of law; materials and methods; case analysis and synthesis; actions and appeals; legal ethics; legal bibliography. FALL. SPRING.
- 39.505 PROCEDURE (4) Forms of action, joinder of parties and causes, demurrers and motions, dilatory pleadings, pleas, replication; setoff and counterclaim; extraordinary legal remedies; declaratory judgments; equity pleadings; the Code ideals in pleading and procedure; jurisdiction and venue; proceedings after verdict. SPRING.
- 39.506 PROPERTY I (4) Problems in possession, bailments, liens, pledges, gifts, accession and confusion, bona fide purchaser. Estates in land. Landlord and tenant. SPRING.
- 39.507 TORTS (4) Important civil wrongs not arising out of contract; intentional and negligent injuries to persons, to real and personal property, and to intangibles. FALL.

Advanced Courses

- 39.600 ADMINISTRATIVE LAW (2) Constitutional background for administrative agencies. Statutes and administrative agencies. Statutes and administration, procedures, hearings, decisions, rule-making, adjudication. Judicial control of agency action. Federal Administrative Procedure Act. FALL.
- 39.601 BILLS & NOTES (2) Origin of negotiable instruments. Negotiability, transfer and negotiation, bank collection problems. Holders in due course. Equities and defenses. Liability of parties. Discharge of instrument, of parties. FALL.
- 39.602 BUSINESS ASSOCIATIONS (4) Brief consideration of the law of partnerships. The nature, powers, and obligations of private corporations, including the effect of ultra vires acts, together with a consideration of the rights and duties of promoters, officers, directors, and stockholders, and of the rights of creditors and others against the corporation. FALL.
- 39.603 CONFLICT OF LAWS (4) Impact on doctrines of conflict of laws of: domicile, jurisdiction of courts, foreign judgments, torts, contracts, the internal law of the forum, property, family law, administration of estate, corporations. SPRING.

- 39.604 CONSTITUTIONAL LAW (4)** Judicial interpretation and enforcement of constitutions; judicial review; separation of powers; the Federal system; the powers of the national government, particularly to regulate interstate and foreign commerce; the Bill of Rights; the 14th Amendment; due process, equal protection and privileges and immunities of citizens of the U. S.; the power of eminent domain; retroactive and ex post facto laws; the contract clause; constitution revision and amendment. **SPRING.**
- 39.605 CORPORATIONS (3)** Nature, powers, obligations of private corporations, including the effect of *ultra vires* acts. Consideration of rights and duties of promoters, officers, directors, stockholders, and of the rights of creditors and others against the corporation. **1955 SUMMER.**
- 39.606 CREDITORS' RIGHTS (2)** Fraudulent conveyances, enforcement of judgments, assignments for the benefit of creditors, creditors' agreements, receiverships, corporate reorganization, and bankruptcy. **FALL.**
- 39.607 DAMAGES (2)** Nominal and exemplary damages; compensatory damages; direct and consequential damages in tort and contract cases; aggravation and mitigation of damages; liquidated damages; value; interest; counsel fees and other expenses of litigation; nonpecuniary losses; entirety of recovery; damages in specifications. **SUMMER.**
- 39.608 DOMESTIC RELATIONS (2)** Legal consequences of marital contracts. Grounds for dissolution of marriage. Annulment, divorce and separation, alimony, antenuptial debts and contracts. Wife's earnings. Rights and obligations of parent and child. Contracts and torts of infants. **1956 SUMMER.**
- 39.609 EQUITTY (4)** General nature of equitable jurisdiction. The in personam concept. Specific performance of contracts, specific relief against torts. General and particular equitable remedies. **FALL.**
- 39.610 EVIDENCE (4)** Proof of facts in issue. Purpose and necessity of exclusionary rules; the hearsay rule. Examination, competency, and privilege of witnesses. Parole evidence rule. Judicial notice. **FALL.**
- 39.611 FEDERAL PROCEDURE (2)** Historical background of federal rules of civil procedure, discussion of federal rules, recent amendments, application and interpretation of the rules. Comparison of federal rules with state code. **FALL.**
- 39.612 INSURANCE (2)** Life, accident, and property insurance. The insurance contract. Insurable interest, rights of beneficiary, insured assignee, creditors, tax aspects, methods of settlement, rights and powers of insurer. **SPRING.**
- 39.613 INTERNATIONAL LAW (3)** Rules governing relations between states, recognition, international organizations, territory, nationality, jurisdiction, treaties, international claims, disputes and their settlement. **SUMMER.**
- 39.614 JURISPRUDENCE (2)** Introduction to legal philosophy; comprehensive examination of the systems of legal thought, including an analysis of several contemporary theories of law and the application of their methods to concrete problems. A paper will be required. **FALL.**
- 39.615 LABOR LAW (2)** Common Law and statutory bases for regulation of labor relations. Strikes, boycotts, and other means of self-help. Collective bargaining, rights and obligations of employers and labor organizations under the Labor Management Relations Act, Norris-LaGuardia Act. Legal status and responsibilities of unions. Offered alternate years. **SPRING.**
- 39.616 LEGAL ACCOUNTING (2)** Introduction to accounting techniques and to interpretation of financial statements. Emphasis on problems found in practice of the law. **FALL.**
- 39.617 LEGAL HISTORY (2)** Nature, origin, development of law; origin and development of Anglo-American law; modern English and American law; legal administration. **FALL.**
- 39.618 LEGAL WRITING (Credit arranged)** Analysis of legal problems. Collection of material and authorities. Mechanics of legal writing. Preparation of opinions and articles. Admission requires approval of Dean. **FALL. SPRING.**
- 39.619 LEGISLATION (2)** Historical evolution of the legislative process, its present nature and extent. Supplementary rules and regulations. Technique of bill drafting. Principles of statutory construction. **SPRING.**
- 39.620 MILITARY LAW (2)** Principles of military justice, including study of courts martial, military commissions, and courts of inquiry; principles of martial law and the law of war; source, nature of, and limitations on military authority. **SUMMER.**
- 39.621 MOOT COURT (2)** Practice court conducted on pattern of district court of the U. S. Preliminary investigation of facts, preparation of case for trial, trial beliefs, consideration of trial tactics. Conduct of civil actions to final judgment including preparation of complaint, responsive pleadings and motions, impaneling jury, examination and cross-examination of witnesses, prayers, argument to court and jury, procedure on appeal. **SPRING.**
- 39.622 MUNICIPAL CORPORATIONS (2)** The place of local government units in the governmental structure; legal aspects of personnel, finance, community planning, debt adjustment and regulation of business; local government responsibility in tort and contract. Offered alternate years. **FALL.**
- 39.623 PARTNERSHIP (2)** Nature, formation, and legal incidents of partnerships; partnership property; powers of representation; rights and liabilities; rights and duties of partners inter se; dissolution and winding up. **1956 SUMMER.**
- 39.624 PATENTS I (2)** History, theory, philosophy of patent system. Practice and procedure in preparation and prosecution of patent applications including interferences, appeals, and patent conveyancing. **FALL.**
- 39.625 PATENTS II (2)** Substantive law of patents. Enforcement of patents. Patent litigation in all branches including patent fraud, patent and anti-patent trust problems, license litigation, suits by or against the sovereign. **SPRING.**

- 39.626 **PROPERTY II (2)** Modern land transactions, titles, conveyancing, title examination, registration, insurance, covenants and servitudes. Easements, licenses, profits. Lateral and subjacent support. Water rights. Air rights. FALL.
- 39.627 **PROPERTY III (4)** Future interests: remainders, revisions, possibilities of reverter, conditions, executory limitations. Powers of appointment. Problems in construction. Restraints on creation of future interests. Rule against perpetuities and accumulations. Problems in estate and gift taxation. FALL.
- 39.628 **RESEARCH SEMINAR (2)** A research and writing seminar in investigating a contemporary legal problem. Individual research by seminar members, results of which are incorporated into symposium. Admission only with approval of dean and instructor. SPRING.
- 39.629 **RESTITUTION (2)** Quasi-contractual obligations compared with the contract and tort obligations. Unjust enrichment. Mistakes of law and fact. Rescission and reformation. SPRING.
- 39.630 **SALES (2)** Transfer of property interest in goods. Divided property interests. Documents evidencing property interests. Conditional, approval, return and bulk sales. Warranties. Payment, inspection and acceptance. Remedies. FALL.
- 39.631 **SECURITY TRANSACTIONS (2)** Real and personal security. Legal mortgages. Security holder's choice of remedies. FALL.
- 39.632 **TAXATION (4)** Jurisdiction to tax and other constitutional limitation. Legal problems presented by the tax system, with particular attention to Federal income tax. SPRING.
- 39.633 **TRADE REGULATION (2)** Unfair trade practices, combinations in restraint of trade monopoly. False and misleading advertising. Misappropriation of business ideas and assets. Disparagement of competitors. Federal trade commission act, fair trade laws, Robinson-Patman act, unfair sales act, federal food, drug and cosmetic act, Clayton act. Adulteration and misbranding, exclusive arrangements and tie-in regulations. SPRING.
- 39.634 **TRUSTS (4)** Trust relation and its development. Necessary elements and manner of creation. Powers, duties, rights, and liabilities of trustees and cestui que trusts. Resulting and constructive trusts. SPRING.
- 39.635 **WILLS (2)** Descent and distribution. Property rights of surviving spouse. Making and executing of wills. Testamentary capacity, character and intent. Integration, revocation, ademption, abatement, and lapse. Probate and administration. SPRING.

NOTE: Numerous changes have been made in numbers assigned to courses offered by the Washington College of Law. The list below indicates the new and old numbers of the courses affected. The new number is given in the left column; the number it displaces (beginning in the Fall of 1955) is listed in the right column.

<i>Present Number</i>	<i>Former Number</i>	<i>Present Number</i>	<i>Former Number</i>	<i>Present Number</i>	<i>Former Number</i>
39.501	39.502	39.611	39.608	39.625	39.619
39.502	39.509	39.612	39.609	39.626	39.620
39.504	39.508	39.613	39.632	39.627	39.621
39.601	39.617	39.615	39.610	39.628	39.622
39.602	39.601	39.616	39.611	39.629	39.623
39.603	39.602	39.617	39.630	39.630	39.624
39.604	39.633	39.618	39.612	39.631	39.625
39.605	39.634	39.619	39.613	39.632	39.626
39.606	39.603	39.620	39.614	39.633	39.627
39.607	39.604	39.621	39.615	39.634	39.628
39.608	39.605	39.622	39.616	39.635	39.629
39.609	39.606	39.623	39.631		
39.610	39.607	39.624	39.618		

Summer Sessions

Intensive Summer Study

In its summer sessions The American University provides an opportunity for students to begin their academic work, accelerate the completion of their studies, or enroll in courses which are of special interest to them or which will give credits that may be transferred to another institution in which they are enrolled in a degree program.

Summer undergraduate and graduate courses are offered in the day and in the evening in two six-week sessions. A student may enroll in either or both of these sessions as a fulltime or a parttime student. Summer law courses are offered in the evening only and for a single ten-week session.

During the summer day classes customarily meet five days a week and evening classes customarily meet two evenings a week. This intensive schedule permits students to earn the same amount of credit for each course as is earned during the longer Fall and Spring sessions.

Students in summer sessions are subject to the admission and academic regulations that are in effect during the regular academic year and all credits earned may be applied toward degrees at The American University provided they are appropriate to the student's plan of studies.

Institutes and Special Programs

Each summer the University offers a variety of institutes and other special courses designed to make use of the facilities for study and for the observation of governmental activities that exist only in Washington. These offerings are intended to meet the needs of teachers, specialists in various fields of knowledge who wish to learn about the newest developments in their fields, and other students who are qualified. They may be taken for academic credit or may be attended by persons with the necessary background who are not interested in a degree but wish to make use of the opportunity to learn from experts more about subjects in which they have a special personal or professional interest.

These special summer courses, like the usual offerings of the University, bring to the classrooms leading specialists from Washington and elsewhere in the nation who give lectures and lead discussion groups that are a typical part of the intensive summer programs.

Information Concerning Summer Sessions

An announcement of the summer sessions is published early each year, giving full information concerning courses and teachers, residence facilities, and dates of the sessions.

For a copy of this announcement or for other information concerning the summer sessions address inquiries to the Office of the Assistant to the President, Massachusetts and Nebraska Avenues, N.W., Washington 16, D.C.

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Hurst R. Anderson, <i>President</i> , The American University, Massachusetts & Nebraska Avenues, N.W., Washington 16, D.C.	
Scott B. Appleby, Southern Building, 1425 H Street, Washington, D.C. (1960)	
Mrs. Alben W. Barkley, 2101 Connecticut Avenue, N.W., Washington 8, D.C. (1959)	
Harold I. Baynton, <i>Attorney</i> , Suite 205, Commonwealth Building, Washington 6, D.C. (1957)	
Francis H. Boland, Jr., <i>Vice President</i> , Adams Express Company, 48 Wall Street, New York 5, N.Y. (1961)	
Howard Booher, <i>Director</i> , Washington Office, Sharon Steel Company, Suite 149, 1001 Connecticut Avenue, N.W., Washington 6, D.C. (1959)	
Earl Bunting, <i>Former Managing Director</i> , National Association of Manufacturers, 3900 Cathedral Avenue, N.W., Washington, D.C. (1957)	
H. Paul Caemmerer, <i>Secretary</i> , National Commission on Fine Arts, 19th and C Streets, N.W., Washington 25, D.C. (1959)	
George C. Clarke, <i>Owner</i> , Ebbitt Hotel, Tenth & H Streets, N.W., Washington 1, D.C. (1959)	
Edward F. Colladay, <i>Attorney</i> , Colladay and Colladay, 1331 G Street, N.W., Washington 5, D.C. (1957)	
Paul B. Cromelin, <i>Attorney</i> , Cromelin and Townsend, National Press Building, Washington 4, D.C. (1959)	
Horace E. Cromer, <i>Pastor</i> , Monumental Methodist Church, 206 Court Street, Portsmouth, Virginia. (1957)	
W. Yule Fisher, <i>Attorney</i> , Highway Users Conference, Inc., National Press Building, Washington 4, D.C. (1957)	
Robert V. Fletcher, <i>Attorney</i> , 815 Transportation Building, 17th & H Streets, N.W., Washington 6, D.C. (1961)	
John O. Gross, <i>Executive Secretary</i> , Board of Education of The Methodist Church, 1001 Nineteenth Avenue South, Nashville 2, Tennessee. (1959)	
James I. Hoffman, <i>Chief</i> , Surface Chemistry Section, National Bureau of Standards, 3607 Calvend Lane, Rock Creek Hills, Kensington, Maryland. (1957)	
W. Kenneth Hoover, <i>Chief of Records Control Branch</i> , Office of Management, General Services Administration, Washington 25, D.C. (1961)	
A. C. Houghton, <i>President</i> , E. Quincy Smith, Inc., 1418 H Street, N.W., Washington 5, D.C. (1957)	
Samuel H. Kauffmann, <i>President</i> , The Evening Star, Washington 4, D.C. (1957)	
Abraham S. Kay, <i>Owner</i> , Indian Spring Country Club, Silver Spring, Maryland. (1960)	
Otto E. Koegel, <i>Attorney</i> , Dwight, Royall, Harris, Koegel & Caskey, 100 Broadway, New York 5, N.Y. (1957)	
Russell Lambert, <i>Pastor</i> , First Methodist Church, LaGrange, Illinois. (1959)	
John L. Laskey, <i>Attorney</i> , Laskey & Laskey, 1426 G Street, N.W., Washington 5, D.C. (1961)	
Bolitha J. Laws, <i>Chief Judge</i> , U.S. District Court, Washington 25, D.C. (1961)	
Robert M. Lester, <i>Former Secretary</i> , Carnegie Corporation of New York, 119 North Columbia Street, Chapel Hill, North Carolina. (1959)	
W. Everett McLaine, <i>Director of Public Relations</i> , Pittsburgh District, U.S. Steel Corporation, 525 William Penn Place, Pittsburgh 30, Pennsylvania. (1961)	

NOTE: Year in parentheses indicates date of expiration of the term of each trustee.

- Raymond W. Miller, *Consultant*, Food and Agriculture Organization of the United Nations, Washington 6, D.C. (1959)
- Arthur J. Moore, *Bishop of The Methodist Church*, 63 Auburn Avenue, N.E., Atlanta 3, Georgia. (1959)
- John M. Orem, *President*, Sibley Memorial Hospital, 1140 North Capitol Street, Washington 2, D.C. (1961)
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- Richard C. Patterson, Jr., Room 1505, 111 Broadway, New York, N. Y. (1959)
- James Craig Peacock, *Attorney*, Williams, Myers & Quiggle, Munsey Building, Washington 4, D.C. (1957)
- E. Barrett Prettyman, *Circuit Judge*, U.S. Court of Appeals, Washington, D.C. (1959)
- Mrs. Helen D. Reed, *Assistant U.S. Attorney for the District of Columbia*, U.S. Courthouse, Washington 25, D.C. (1957)
- John M. Reeves, *President*, Reeves Brothers, Inc., 54 Worth Street, New York 13, N.Y. (1961)
- Richard S. Reynolds, Jr., *President*, Reynolds Metals Company, Richmond 19, Virginia. (1957)
- J. Garfield Riley, *Attorney*, U.S. Department of Justice, 1870 Wyoming Avenue, Apartment 104, Washington 9, D.C. (1957)
- William E. Schooley, *Vice President*, American Security and Trust Company, 15th Street and Pennsylvania Avenue, N.W., Washington, D.C. (1959)
- Albert P. Shirkey, *Pastor*, Mt. Vernon Place Methodist Church, 900 Massachusetts Avenue, N.W., Washington, D.C. (1961)
- George H. Sibley, *Vice President and General Attorney*, E. R. Squibb and Sons, 200 East 66th Street, New York 21, N.Y. (1957)
- A. Frank Smith, *Bishop of The Methodist Church*, 1049 Kirby Drive, Houston 19, Texas. (1959)
- Ralph D. Smith, *Pastor*, Petworth Methodist Church, 1370 Locust Road, N.W., Washington 12, D.C. (1957)
- Guy E. Snavelly, *Executive Director Emeritus*, Association of American Colleges, 2122 Massachusetts Avenue, N.W., Washington, D.C. (1958)
- John Sparkman, *U.S. Senator from Alabama*, U.S. Senate, Washington 25, D.C. (1961)
- L. P. Steuart, *President*, L. P. Steuart, Inc., 1440 P Street, N.W., Washington, D.C. (1959)
- Floyd W. Woodcock, 2412 Delaware Avenue, Wilmington 6, Delaware. (1961)

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JAMES E. CHAPMAN, M.D.....*University Physician and Director of Health Service*

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ELIZABETH CUBBERLY, LL.B.....*Librarian of the Washington College of Law*

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ALVA L. DAVIS, B.A., M.A., Ph.D.....*Director of the American Language Center*

DONALD H. HUNT, B.A., M.A.....*Director of the Washington Office, Human Relations
Area Files, Inc.*

NOTE: Administrative appointments listed are those in effect during 1955-1956.

Faculty

- ALDRIDGE, MARY H. (1955), B.S., Georgia; M.A., Duke; Ph.D., Georgetown. *Associate Professor of Chemistry.*
- ALLEN, EDWARD L., B.S., Columbia; M.A., Ph.D., American. *Adjunct Professor of Economics.*
- ALPERT, HARRY, A.B., College of the City of New York; M.A., Ph.D., Columbia. *Adjunct Professor of Sociology.*
- ANTOSIEWICZ, HENRY (1952), Ph.D., Vienna. *Associate Professor of Mathematics.*
- BAKER, SARAH (1945), Pennsylvania Academy of Fine Arts, Academic Montparnasse, Phillips Memorial Gallery. *Associate Professor of Art.*
- BAILY, NATHAN A. (1946), B.S.S., College of the City of New York; M.A., Ph.D., Columbia. *Professor of Business Administration and Finance.*
- BANES, DANIEL, B.S., M.S., Chicago; Ph.D., Georgetown. *Adjunct Professor of Chemistry.*
- BATCHELDER, MERRITT C. (1935), B.A., Hillsdale; M.A., Columbia; Ph.D., State University of Iowa. *Professor of English.*
- BECKERMAN, LAWRENCE, A.B., Brooklyn College; LL.B., George Washington. *Adjunct Professor of Communication.*
- BECKHAM, RALPH S. (1953), A.B., University of South Carolina; Bachelor of Foreign Trade, American Institute for Foreign Trade. *Instructor in the American Language Center.*
- BENTLEY, JOHN EDWARD (1924), M.A., Clark; S.T.B., M.R.E., Boston; Th.D., McGill. *Professor of Psychology.*
- BICKFORD, HUGH C., LL.B., LL.M., National University; B.S., M.A., American. *Adjunct Professor of Taxation.*
- BIGGS, WILLIAM E. (1952), B.A., LL.B., M.A., University of Louisville. *Associate Professor of Government and Public Administration.*
- BLACK, LLOYD D., B.A., Toronto; M.A., Clark; Ph.D., Michigan. *Adjunct Professor of Geography.*
- BLANCHE, ERNEST E., B.A., M.A., Bucknell; Ph.D., Illinois. *Adjunct Professor of Statistics.*
- BOOKSTAVEN, DAVID R. (1947), B.A., Cornell; LL.B., Yale. *Professor of Law.*
- BOWER, ROBERT T. (1949), B.A., Yale; Ph.D., Columbia. *Associate Professor of Sociology.*
- BOWLES, EDGAR (1948), Ph.D., Johns Hopkins. *Associate Professor of Geology.*
- BRADLEY, MARTHA C. (1955), B.S., M.S., Maryland. *Assistant Professor of Biology.*
- BRADSHAW, MARY E. (1950), B.A., Pennsylvania College for Women; M.A., Ph.D., Wisconsin. *Associate Professor of International Relations and Organization.*
- BRANDENBURG, DAVID J. (1948), B.S., Bowdoin; M.A., Ph.D., Columbia. *Associate Professor of History.*
- BRAY, RICHARD (1954), B.A., M.A., Colorado. *Associate Professor.*
- BUCK, SOLON J., B.A., M.A., Wisconsin; Ph.D., Harvard. *Adjunct Professor of History and Archives Administration.*
- BURR, SAMUEL ENGLE, JR. (1947), Litt. B., Rutgers; M.A., Wisconsin; M.A., Columbia; Ed.D., Cincinnati. *Professor of Education.*
- BUSH, GEORGE P. (1948), M.B.A., Harvard; M.A., Ph.D., American. *Professor of Government and Public Administration.*
- CAMINITA, LUDWIG, JR., B.S., M.A., George Washington. *Adjunct Professor of Communication.*
- CAMP, PAUL, B.A., M.S., Brown. *Adjunct Professor of Public Administration.*
- CARNDUFF, ARTHUR R. (1953), B.A., Harvard; LL.B., Southeastern. *Assistant Professor of Business Law and Taxation.*
- CASSELL, STAFFORD H. (1937), B.A., American; B.S., M.S., Pennsylvania State. *Professor of Physical Education.*
- CHATFIELD, HELEN L. *Adjunct Professor of Public Administration.*

NOTE: Faculty appointments listed are for the year 1955-1956. Adjunct professors are specialists within their chosen professions who are members of the faculty but teach on a parttime basis. Professorial lecturers and lecturers are specialists in various fields of learning who teach from time to time on a parttime basis.

- CLAGUE, EWAN, B.A., M.A., Washington; Ph.D., Wisconsin. *Adjunct Professor of Sociology.*
- CLARK, CHARLES M. (1941), B.A., M.A., Ph.D., Cornell. *Professor of English.*
- CONNOR, FRANKLIN G., B.S., Central High College; M.S., Wharton School of Finance. *Adjunct Professor of Public Administration.*
- CORNFIELD, JEROME, B.A., New York. *Adjunct Professor of Statistics.*
- CORRELL, ERNST (1929), Dr. oec. publ., Munich. *Professor of Economic History.*
- CRAWFORD, H. D. (1946), B.A., Hillsdale. *Assistant Professor of Journalism.*
- DAVIS, ALVA L. (1952), B.A., Indiana State Teachers College; M.A., Ph.D., University of Michigan. *Professor of Linguistics in the American Language Center.*
- DAVIS, HAROLD E. (1947), B.A., Hiram; M.A., Chicago; Ph.D., Western Reserve. *Professor of History.*
- DERBY, DONALD (1947), B.A., Bowdoin; M.A., Ph.D., Harvard. *Professor of History.*
- DEWEY, WILLIAM E., M.A., Utah. *Adjunct Professor of Public Administration.*
- DIVINE, WILLIAM R., B.A., Pomona; M.A., Cincinnati; J.D., George Washington. *Adjunct Professor of Public Administration.*
- DURFEE, HAROLD A. (1955), Ph.B., Vermont; B.D., Yale; Ph.D., Columbia. *Associate Professor of Philosophy and Religion.*
- EARLE, CHESTER B. (1955), B.A., Ph.D., Texas. *Assistant Professor of Government and Public Administration.*
- EKIRCH, ARTHUR A., JR. (1947), B.A., Dartmouth; M.A., Ph.D., Columbia. *Professor of History.*
- ENDACOTT, JOHN L., B.A., M.A., Kansas; Ph.D., Chicago. *Adjunct Professor of Psychology.*
- FEAGANS, HAZEL H. (1929), B.A., B.E., George Washington; M.A., American. *Professor of English.*
- FIELDS, DAVID S. (1950), B.S., M.B.A., College of the City of New York. *Assistant Professor of Business Administration.*
- FOX, JAMES H. (1950), B.A., M.A., American. *Assistant Professor of Sociology.*
- FRAILEY, ROBERT H. (1949), B.S., American. *Instructor in Physical Education.*
- FRANCHINO, ROY P. (1951), B.S., Seton Hall University; LL.B., Georgetown; LL.M., Michigan. *Associate Professor of Law.*
- FRANCK, PETER G., LL.B., Berlin; Dr. Jur., Basle. *Adjunct Professor of Economics.*
- FRANK, JOHN G. (1948), Ph.D., Michigan; Ph.D., Munich. *Professor of Languages.*
- FUCHS, HERBERT (1948), B.S., College of the City of New York; J.D., New York University. *Professor of Law.* (Terminal leave of absence 1955-1956).
- GATES, ROBERT F. (1946), Detroit School of Fine Arts; Detroit School of Arts and Crafts; Art Students League of New York; Phillips Gallery; Colorado Springs Fine Arts Center. *Associate Professor of Art.*
- GONDOS, DOROTHY (1947), B.A., Swarthmore; M.A., Ph.D., Pennsylvania. *Associate Professor of History.*
- GOODMAN, CHARLES H., B.S., Wilson Teachers College; M.S., Ph.D., Pennsylvania State. *Adjunct Professor of Public Administration.*
- GOOSTREE, ROBERT E. (1953), B.A., Southwestern at Memphis; M.A., Ph.D., State University of Iowa. *Assistant Professor of Government and Public Administration.*
- GOSNELL, HAROLD F., B.A., Rochester; Ph.D., Chicago. *Adjunct Professor of Government.*
- GRAVES, W. BROOKE, B.A., Cornell; M.A., Ph.D., Pennsylvania. *Adjunct Professor of Government.*
- HALL, EDWARD T., JR. (1955), A.B., Denver; M.A., Arizona; Ph.D., Columbia. *Professor of Anthropology in Human Relations Area Files, Inc.*
- HATTERY, LOWELL H. (1948), B.A., Ohio; Ph.D., American. *Professor of Government and Public Administration.*
- HAWKE, VIRGINIA (1950), B.S., M.A., Ohio State. *Assistant Professor of Physical Education.*
- HENRICI, PETER (1952), Ph.D., Swiss Federal Institute of Technology. *Assistant Professor of Mathematics.*
- HERSH, CHARLES (1950), B.A., M.A., Ph.D., Syracuse. *Associate Professor of Government and Public Administration.*

- HOGENSON, PALMER T. (1955), A.B., St. Olaf; M.B.A., Harvard; Ph.D., American. *Associate Professor of Business Administration.*
- HOCHSTEIN, IRMA E. (1954), B.A., Wisconsin. *Instructor.*
- HUNTER, LOUIS C., B.A., Knox; M.A., Ph.D., Harvard. *Adjunct Professor of History.*
- HUNTER, O. B., JR., B.S., M.D., Georgetown. *Adjunct Professor of Biology.*
- JENSEN, ANNE (1930), B.A., Des Moines; B.S. in L.S., Illinois. *Professor.*
- JOHN, RALPH C. (1949), B.A., Berea; S.T.B., S.T.M., Boston; Ph.D., American. *Professor of Philosophy and Religion.*
- JORGENSEN, GLADYS V. (1944), B.A., M.A., Wisconsin; R.N., Henry Ford Hospital School of Nursing and Hygiene. *Assistant Professor of Nursing Education.*
- KECK, ANDREW S. (1946), B.A., Williams; M.A., M.F.A., Princeton. *Associate Professor of Art History.*
- KEMPTON, WILLET M. (1948), B.A., M.A., Wisconsin. *Professor of Communication.*
- KETCHUM, HARRY W., B.A., Denver; M.B.A., Harvard. *Adjunct Professor of Business Administration.*
- KOCH, ELMER C., B.S., M.S., University of Illinois; LL.B., University of Wisconsin. *Adjunct Professor of Accounting.*
- LABAT, ARMAND X. (1953), B.A., Howard; M.A., Minnesota; Diploma, San Marcos, Lima. *Instructor in the American Language Center.*
- LEVIN, THEODORE H. (1947), B.A., M.A., Brooklyn. *Associate Professor of Economics and Business Administration.*
- LORIMER, FRANK (1938), B.A., Yale; M.A., Chicago, B.D., Union; Ph.D., Columbia. *Professor of Sociology.*
- LUKACS, EUGENE, Ph.D., Vienna. *Adjunct Professor of Mathematics.*
- MACK, CLIFTON E., LL.B., Suffolk. *Adjunct Professor of Public Administration.*
- MAGAW, ELOISE NELSON (1949), B.S., Iowa; Columbia. *Assistant Professor of Education and Secretarial Studies.*
- MANN, FRITZ KARL (1936), Dr.Jur., Goettigen; Ph.D., Berlin. *Professor of Economics.*
- MCAULIFFE, JOHN J., B.A., Boston; M.A., Minnesota. *Assistant Professor in the American Language Center.*
- MCCAUSLAND, STANLEY (1950), B.S., Ursinus. *Instructor in Biology.*
- MCFEETER, RUTH (1955), B.S., Beaver College; M.A., Columbia. *Assistant Professor of Physical Education.*
- MCCRATH, JOHN E. (1955), Ph.B., M.B.A., Chicago. *Assistant Professor of Economics and Transportation.*
- MCGUIRE, ESTHER L. (1952), B.A., Moorehead State Teachers College. *Assistant Professor in the American Language Center.*
- McLAIN, JAMES L. (1934), B.A., George Washington; Certificate, Peabody. *Professor of Music.*
- MILES, ARNOLD, B.A., Ohio State; M.S., Syracuse. *Adjunct Professor of Public Administration.*
- MITTLEBEELE, EMMET V. (1954), B.A., LL.B., Louisville; M.A., Ph.D., Chicago. *Assistant Professor of Government and Public Administration.*
- MOCK, JAMES R., B.A., DePauw; M.A., Ph.D., Wisconsin. *Adjunct Professor of Communication.*
- MOOERS, EDWIN A. (1918), LL.B., LL.D., Washington College of Law. *Professor of Law.*
- MOORE, HARVEY C. (1951), B.A., Delaware; Ph.D., New Mexico. *Associate Professor of Anthropology.*
- MORSTEIN MARX, FRITZ, Ph.D., Hamburg. *Adjunct Professor of Government.*
- MORTIMER, FRANK H. *Adjunct Professor of Communication.*
- MOYER, EUGENE C., B.S., Georgetown; C.P.A., State of Maryland. *Adjunct Professor of Accounting.*
- MYERS, JOHN SHERMAN (1947), B.S., LL.B., Harvard. *Professor of Law.*
- NOBLEMAN, ELI E., B.A., LL.B., LL.M., J.S.D., New York University. *Adjunct Professor of International Relations and Organization.*
- OBERHETTINGER, FRITZ (1951), Ph.D., Berlin. *Professor of Mathematics.*
- OLDS, RUBERTA M. (1930), Ph.B., Chicago; M.A., Columbia. *Associate Professor of Spanish.*

- PATTON, MARY M. (1943), B.A., Kalamazoo; M.A., Columbia. *Associate Professor of English and Speech.*
- PECK, GUSTAV, B.A., M.A., Columbia; Ph.D., Brookings Institution. *Adjunct Professor of Economics.*
- PHOTIAS, NIKOS G. (1949), B.A., Athens; M.B.A., Handelshochschule, Koenigsberg; M.Sc.Pol., Ph.D., Albertus University, Koenigsberg; LL.D., Friedrich Wilhelm University, Berlin. *Professor of Business Administration.*
- PIQUET, HOWARD S., B.S., New York; M.A., California; Ph.D., Princeton. *Adjunct Professor of Economics.*
- POPE, HARVEY J. (1955), B.A., Alabama; M.A., Northwestern. *Assistant Professor of Communication.*
- POSNER, ERNST (1939), Ph.D., Berlin. *Professor of History and Archives Administration.*
- POTTER, PITMAN B. (1944), B.A., M.A., Ph.D., Harvard. *Grozier Professor of International Law.*
- PRIBRAM, KARL, Dr.Jr., Prague. *Adjunct Professor of Economics.*
- RACKLEY, LLOYD E., B.S., M.A., Peabody; Ph.D., George Washington. *Adjunct Professor of Psychology.*
- ROBERTSON, JEAN C. (1952), B.A., M.A., University of Kansas. *Assistant Professor in the American Language Center.*
- ROBINSON, EDGAR S. (1953), B.A., Amherst; M.A., Ph.D., Columbia. *Assistant Professor of Government and Public Administration.*
- ROBINSON, MYLES E., B.A., M.A., Ohio State; Ph.D., Northwestern. *Adjunct Professor of Transportation and Marketing.*
- ROSEN, S. MCKEE, B.A., Minnesota; Ph.D., London. *Adjunct Professor of Public Administration.*
- ROSENBLATT, DAVID (1953), B.S., College of the City of New York. *Associate Professor of Statistics.*
- ROSENTHAL, HARRY (1955), B.S., American. *Instructor in Accounting.*
- ROSS, MURRAY, B.S.S., College of the City of New York; M.A., Ph.D., Columbia. *Adjunct Professor of Economics.*
- ROTH, HAROLD H. (1946), B.A., College of the City of New York; M.A., Columbia; M.A., American. *Associate Professor of Government and Public Administration.*
- RUBIN, ERNEST, B.S., College of the City of New York; M.A., Ph.D., Columbia. *Adjunct Professor of Statistics.*
- SCHUBERT, LEO (1950), B.S., College of the City of New York; M.S., New York University; Ph.D., Maryland. *Associate Professor of Chemistry.*
- SCHULZE, HUGO (1947), B.S., American. *Assistant Professor of Physical Education.*
- SECKLER-HUDSON, CATHERYN (1933), B.S., Northwest Missouri State Teachers; M.A., Missouri; Ph.D., American. *Professor of Government and Public Administration.*
- SEVERY, ROLLAND D., B.A., Michigan. *Adjunct Professor of Public Administration.*
- SHEARS, HELEN H. (1952), Graduate, Washington Normal School. *Assistant Professor in the American Language Center.*
- SHEARS, HELEN H. (1952), Graduate, Washington Normal School. *Instructor in the American Language Center.*
- SHENTON, WALTER F. (1925), B.Sc., M.A., Dickinson; Ph.D., Johns Hopkins. *Professor of Mathematics.*
- SHERRARD, ALFRED (1948), B.S., Harvard; M.A., Columbia. *Associate Professor of Economics.*
- SHORT, OLIVER C., B.A., M.A., Pennsylvania; L.H.D., American. *Adjunct Professor of Public Administration.*
- SIMHA, GENEVIEVE (1951), B.A., Antioch; B.S. in L.S., Columbia. *Assistant Professor.*
- SIMMONS, WALT R., B.A., M.A., Kansas. *Adjunct Professor of Statistics.*
- SITTERLY, BANCROFT W. (1947), B.A., M.A., Ph.D., Princeton. *Professor of Physics and Mathematics.*
- SMITH, GORDON (1947), B.M., Wooster; B.Sc., Mus., M.A., Mills; Ph.D., State University of Iowa. *Associate Professor of Music.*
- SMITH, JOHN H. (1947), B.A., Iowa State Teachers College; M.B.A., Ph.D., Chicago. *Professor of Statistics.*

SOMERVILLE, PAUL N. (1955), B.Sc., Alberta; Ph.D., North Carolina. *Visiting Professor of Mathematics.*

SPENCER, DANIEL L. (1955), A.B., Columbia College; B.L.S., Pratt Institute; M.A., California; Ph.D., American. *Assistant Professor of Economics.*

SPITZ, DOROTHY H. (1955), B.A., California at Los Angeles; Library Certificate, Southern California. *Assistant Professor.*

STAHL, O. GLENN, B.A., Evansville; M.A., Wisconsin; Ph.D., New York. *Adjunct Professor of Personnel Administration.*

STEINER, GEORGE (1951), B.M., M.M., Peabody; B.S., Johns Hopkins. *Assistant Professor of Music.*

STEPLER, HAROLD, B.A., LL.B., George Washington. *Adjunct Professor of Communication.*

STONELEY, ROBERT (1955), M.A., Sc.D., Cambridge. *Visiting Professor of Geophysics.*

SUMMERFORD, BEN. L. (1950), B.A., American; Ecole Nationale Supérieure des Beaux Arts, Paris. *Assistant Professor of Art.*

SWARTHOUT, EVELYN (1951), B.M., Kansas; Tobias Matthay Piano School, London. *Assistant Professor of Music.*

TAYLOR, AMOS E., B.A., Gettysburg; M.A., Chicago; Ph.D., Pennsylvania. *Adjunct Professor of Economics.*

TELLER, JAMES D., B.S., M.A., Ph.D., Ohio State. *Adjunct Professor of Personnel Administration.*

TESORO, GEORGE A., Dr.Jur., Ph.D., Rome. *Adjunct Professor of Economics.*

TILLER, CARL, B.S., Concordia; M.A., Minnesota. *Adjunct Professor of Government and Public Administration.*

TORRENCE, LOIS E. (1953), A.B., Kansas Wesleyan; M.A., Southern Methodist. *Assistant Professor of Government and Public Administration.*

TRUEBLOOD, CHARLES K. (1949), B.S., Earlham; B.S., Haverford; M.A., Ph.D., Harvard. *Professor of Psychology.*

ULMER, MELVILLE (1950), B.S., M.A., New York University; Ph.D., Columbia. *Professor of Economics.*

VAN DER SLICE, AUSTIN (1946), B.A., M.A., Kansas; Ph.D., Pennsylvania. *Professor of Sociology.*

VAN VECHTEN, C. C., B.A., M.A., Michigan; Ph.D., Chicago. *Adjunct Professor of Sociology.*

VON ABELE, RUDOLPH (1947), B.A., Ph.D., Columbia. *Associate Professor of English.*

WALKER, ROBERT N., B.S.Ed., Virginia; M.Ed., Pittsburgh; Ph.D., Virginia. *Adjunct Professor of Education.*

WEIGERT, OSCAR, Dr.Jur., Marburg. *Adjunct Professor of Sociology.*

WEITZMAN, ELLIS (1946), B.A., Emory; M.A., Creighton; Ph.D., Nebraska. *Professor of Psychology.*

WESS, HAROLD B. (1953), B.S., College of the City of New York. *Professor of Business Administration and Retailing.*

WYATT, KATHRYN D. (1945), B.A., Meredith; M.A., Middlebury. *Assistant Professor of Languages.*

YOCUM, JACK H. (1955), B.A., Washburn Municipal University; M.A., State University of Iowa; Ph.D., Wisconsin. *Assistant Professor of Speech and Theater.*

ZIMMERMAN, R. R., B.A., Ph.D., Greenville College. *Adjunct Professor of Administration.*

TEETER, MARY LOUISE BROWN (1925), B.A., DePauw; M.A., Michigan. *Emeritus Professor of English.*

MARSHALL, LEON C. (1936), B.A., LL.D., Ohio Wesleyan; B.A., M.A., Harvard. *Emeritus Professor of Political Economy.*

STOWELL, ELLERY C. (1922), B.A., Harvard; Docteur en Droit, Paris; Graduate of the Ecole libre des Sciences politiques, Paris. *Emeritus Professor of International Law.*

TAYLOR, WILLIAM CLARK (1908), LL.B., LL.M., Georgetown. *Emeritus Professor of Law.*

WOODS, GEORGE B. (1925), B.A., Northwestern; M.A., Ph.D., Harvard. *Emeritus Professor of English.*

LECTURERS

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